Table 1

ATATCTTCTTAGGTGAAGGTGAGACACCAGACCTAAATCTGTCATCTCAAGAGTAGAAGG
ATGAACCACACATACAAACCCATCACAGATGAATGCAAATAAAAAAGTCAGCTCCGAAGT
TGGGTTCTGAGCAGTGTAGATTCTACTGCTAAGGCTTGGACTACAAGC

Sequence 3358

AGGTACGCGGGGGGCGCCATTTTGTAGAGAAACAAGCGGAGTTAACCGAAGAGGGGGTCG
AGGAGAGCCGGAGTCGGGGACCCAGGAGTTTCCTGTGTCCAGCGCTGCTGGAGCCGCCTG
AGGTGCCATGTTTCAGAACAGAGTAAGACCCCTGGTAAAGAAGAACTGAAGATATTATAC
AGATACCAGATATAGCCTAATTACAAAGAAAGCATTAACCTGCCTCTGAGGTGACTAAAG
GGGAATAATGGTGATTTTGCGCCGGGCT

Sequence 3359

TNGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT
TTTTTTTTTTTTNGGAGTAGAATATTGATTGTCCTATATCCCATTTTCTTGAAGAGATTC
TGGCTTCTAATATATGTTCCTAAAAAAAAATTTATCGTCTAGTAGTGATGTCTTCATGTT
TCACCCAGCTGTCTCATAGGCATGACTAAGCATCTATTTCATCACCTGGCTCTGGATGCC
TCCNCTCTTTACCATNGGTGAAAGGCATTTGCTGATTCCTTTTGATATACCTGAAGTATT
GATGCTAGAGAAATCACTTCCAATATAACAGCATCGTTTGCAGATTTTCACTTCTGN

Sequence 3360

AGGTACAAGCCGTCCACTGCAGGAATGACGTGCTGTAAAAGGGATGCAGTGTCAAGTGTA
GTCATGGATGGGTGGGAAGACCAGACAAAGGCATCCAATGGGACTGACTTACCTAAACAA
ACCAGAAGGAAGTCAGAACAGTGGGAAGATCTGATAGATAAGCAGTATTCTGCAGGCAGA
TGAAGGAGCAAGCTTTGGGCCCCCAAATCTTCACCAGTGCATCCACATTACAGAGGATAA
TGCCTGAGGGAGGGGAAGATCATCTCAGGATTCTGGAACACTGGGCCCTCCCTTTCTTAT
TCCAAAAGGCTGGAGCAGTTCTGCATGTAGGCTTCTCTGGAAATGGTCTAGG

Sequence 3361

AGGTACCGGGAACCAAACTCTCATTCCCCAGGGGCCTAAGCCCCCCGTGGCCAGGCCCTT
CTCAAGTCAGGGTTCCTGCACATTCACAGTTACGGGTGGCCCTGGGAGTAACACCTGGCA
CCCAAACAGGTCACCAGAGTCCACACATAGTCCACCTGCCCTCCCTGCGTAAGATCAGCT
CTTCCTCCTCCCGACGAATAGATCAGGGTCAATGATCCCTGCCAAGATGGCGACTGCTCC
AGCCTGCTGGTCCAACCTGTCCAGCCACAGCTGTTGCTCGAAGGCTTGAAGTTCAATGGG
ACCCTCTCCCGCTTTCTACAAACTGGTTCCTTTATTTTTATGTTTATTTATTTGGGACG

Sequence 3362

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCTTTATAGA
AGAAGAACAGAGAAACTTTTCCATGTCTGTAAATAGCGCTGCTGTCCTGCGATTGACAGG
ACGAGGAGGAGGAGGAACAGTGGTGGGGGCTCCTAGAGGTCGAAGTTCTTCAAGAGGGCG
AGGCAGAGGCAGAGGTGAATGTGGTTTCTACCAAAGAAGTTTTGATGAAGTAGAGGGTGT
TTTTGGTCGAGGAGGTGGCAGAGAAATGCATAGATCGCAGAGCAAGAGAGAAGAGAGGCA
GAAATGAGGGCAAAACGGGAAGAGGAAGAGCGAAAGAGGCAGGAAGAACTCCGAAGACAA
CAGGAGGAAATTCTTCGGCGACAGCAGGAAGAA

Sequence 3363

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGAAGGTTTTGTCTCTT
AATTTTCTTTGAACCACACCTCTTCTCCTTATTATAAGAAAAACCCTCTTAGGGTAAGGG
AAGCCCAAATTAACTGTCCTGAAATTTTGCATTATATTTAAACCATAATATTTGATTTAC
TTCTGTCAAACAAAACACTACCATTTGGGTTCTCATTTGTAGATTATTTAAAAACATGTT
TTTCCTGTTAATTATCAATGCATTTACTATCACAAGGATTNAAAAAGATCACTTCAGGTG
GTGGGGATGTTTCATGAAACACCATGGGTGGGGGAGTAGGTAGTGGGGCAAGGCAGAGTG
GACAATCAGCTTAAACCTTCCTTTCA

Sequence 3364

AGGTACTCCATTCTCCAGCATTTTCTACATCTGGCAAGCTCGAAAGTGAAACCCTAGTGG
GCCATCATGCAGGTTTTGAGTTATTTACTGTTACAGATGAGGAAACTGCGAAGCTACATG
GCCACAGTCAACAACGACAACAGAAGGCAACATAGTATGGCGGTTAAGAGCACCGACTCT
GAAGCCAGCCTGAATCCTAGAGCCAGAGCTGTGCAACAGCAGGTAAATGACTTATCCTGT
GCAGTTTCCTCCTTAATGGAAATAGTGCCCAGGCCACAATATCGCGAGATTTACACGTAA
AGCTGGAAACAACTCCCGTCCTAGAGTAAGCACTGTTTACTATTAAGCAGCATCAG

Sequence 3365

AATTGGAGCCTCCACCGCGGTGGCGGCCGTGGTGGTGAAGCTGTAGCCGCGCTCGGTAGA
GGATCTTCACCCGCGTACCCGCTAAAACTGCACAGCTCGACCTTCATGGCGACAGCTCCA
CGGAAAGACAAAAGATGGCGAAAAGAAAACCCGCGTACCT

Table 1

Sequence 3366
CCGCGGTGGCGGCCGAGGTACTCCCTAGTTGTGTCTGAATTGGACGCACCAGCACTTGAG
CACACACAAATGCACGTGAACAGACGGAACATGTTATGGGCCTGTTAGCCAAGGAATGAC
AGAATTAATCCATGGGCATTTGCGGCCAGTGTTGTGTTAAACTAAAGGGAAAAAGTGAAC
TGGAAAAAGCAATGTTTGTTTTATGAAAATCTCAGACCCAATCCTTAGGTGACAGTTCTG
GAAATGAGGGGTGTCTAAAACAAAGGGCATCTGAAACTTCGGTTTTTCAGCTTCCTTTCC
TTGTCTCATGACCTCTTTCCTACCCGCTGCCTCTGTTTTCTCTAATATGGAACAGTGAAA
ATGGGGGCCAG
Sequence 3367
AGGTACTAGGTTGGCACACAATGGGATCTGGGCTTCCAGCAGAGGTAGGAGGCTCAGGAC
TGTAAGAACCCAGGACAGCGCCATACTGAGACCAGGAGGCACGTGGAGCCAGGCAGTGCT
CCCCGCGTACTACTCGATTGTCAACGTCAAGGAGTCGCAGGTCGCCTGGTTCTAGGAATA
ATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTAGTCGGTGTACCTGCCCG
Sequence 3368
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGCATGATAAGTTTCCAAGGAAC
CTTAGTGATGGGGACTGTCTCTTTTAAAATTAAATTGTGTAAATAACTCCCAGAGCCATG
CTGGTAAGAAACAAAACAAAACAAAAAGAACTAGAAACTTGAAACAAACGTAGGATTTCT
GCTGGTAAAAGGATGCAAAGCAGGCCTGCCTGCTGCACTTCCCCAGAGCTAATCCTTGAG
CCAAAAGAGCTTCCTGGTGAAGCCTCGCACTCTCCGTAACAGGGTGTGGGGGGACCGAGA
CATGTGGGCTCCANACTTGACCATCTTTACCTAGTTATGG
Sequence 3369
AGGTACCCACCAGATGTGTCTGTCACTTCCCTACATCCACCTCTATTGTGGTTCTCATGT
TTCTGCCTCCCTAGAGACCATTTCTCTGTAGAGCAGCGCTTTCGAATAGAAATACAATGC
CAGACACATAAGTTGTTTTAGATTTTCTAGTAGTCACTTTAGAAAAGTTAAAAAGAAACA
GGTGAAATTAATGTTTTATTTCACCTAAAATGTTAGCATTATCCAAAATATCACTTCAAC
ATCTTATCAAAATAAAATTATTAATGAGATTGGTTACCGTTCCGATAAATAGGTGAACTG
AGAGCATACACAGTAGTATTCTGTTCTAATTTCTGCTTCACTATGAGTGTCTTGACA
Sequence 3370
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTGCATGATAAGTTTCCAAGGAAC
CTTAGTGATGGGGACTGTCTCTTTTAAAATTAAATTGTGTAAATAACTCCCAGAGCCATG
CTGGTAAGAAACAAAACAAAACAAAAAGAACTAGAAACTTGAAACAAACGTAGGATTTCT
GCTGGTAAAAGGATGCAAAGCAGGCCTGCCTGCTGCACTTCCCCAGAGCTAATCCTTGAG
CCAAAAGAGCTTCCTGGTGAAGCCTCGCACTCTCCGTAACAGGGTGTGGGGGGACCGAGA
CATGTGGGCTCCAGACTTGACCATCTTTACCTAGTTATGGGA
Sequence 3371
CCGCGGTGGCGGCCGAGGTACAATCAGAGCCTCTGGAAATTTGATTCAGGCAAGTCGGGG
GAGTCTCCGGTATTCTTCTCTGAGAACTCTGTTTTCATTATACAGCTGGACAATGGAATC
TATGATTTGCCTGTAGAGGTTAGAGGTGCATCCTTTAGAAAAATACATATTGCCAGAAGC
AGGCTGACTTGGGCCTCTCCTACCATTTTCTTCATCAAAGCTGCTGTGATGACGTTCTAG
CTTTTCTCACAGGCAGTTGTTGATGAAAAGGGTCTCCTTCAGGTGCTGCCACTGGCTCTG
GATCTCATCTTTGGCTATTTCCATAGCCAAGGGGCCTTCCTGTGCATCAAAGAGGAAGGC
AT
Sequence 3372
ATAACTTGCGTCTGATCCAGGTTGCCGAAAGGGTGCCCGGTTGTAGGGGGTATTATTGTA
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ACTCCTGGTCNTGTCTTGGGGTAAGGGTTGGNGTANAAGGTTGTATTATGTAAGGGNGTC
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TTGGGTTAAATTTTTTTTTTTTNGGGNTTTTNGGGGAAATTCCCTTAAATTTANCCCCCC
CCCTTTGGGTTTTNTTNCCCCCCGGAAAAAATTTTTCCTTTGGGCCCCCCGNTTNGGNTT
TGGGTTAAANTTCCCCCCCCCCAAANANCCNCCCCNTTTTGGGAATCCCCCCCCCANNAAT
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GGAAANGGNCCCTTTNCCGGGGGGTTAANTTTTTAAATTAAATTNAATTTTTTTTTTTNT
TTTNCCNTTCCAAATTTTAAAAAAAAAGGGGGTTTTTTA

Table 1

Sequence 3373
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTGGCGGGGGTCACAAGGCAGCCATCA
TGTTCTTGGGGCATCGTAGGGACCTGCTGGGNGGTGTAAGGTTTTCCCGNGTCNACCTNG
NTGGTAAGTAAGTCCTTCGNATNNCCTTGNCNTGGNGNCCTTTTCCCANCCGGGNCNTTG
NGTTTGTAAGTAAGGGGGNGNCCATATANGTCTCAGNGNCCATTAAAAAAGNAAAAAATT
GGGGAAGTAACCGGTTGGGGGGAAAAGGGGGGGGGNAACCCCAATTGGTTTTNGGAACCT
TGGGCCCCCAAAAACCTTTTTGGNCCGGGGNAAAGGGGTTCCNAAGNCCCAATTTTGGGA
AGGNCCCTTGGGGGCCCCCAAAGNGGGGGNAAAAAAAACCGNGGTAAGGGGCCAAGGGGT
TGGGGTTNGGAACCAACCCCCAACCCTTTCNAATNGGGGGTNGGGGCCCTTGGNAAGTAA
ACCAAAAGGGGGGTNGGGGGTTTTCCAAGNAAATTCCCCCCCCCGTTTTAAANGGGTTTT
TGGGGNTTTGGTTTGGGGGTTTCCAAAGNCCTTTTTCAAAAGGAAAGGNTNGGGCCCGGG
GGAAAAAGGCCAAGGNAAATTAATTTCCAATTTAAGGNAAAGGGGGGGCCCCCTTCCCGG
GTTTNGGTTTCCAAAAATTGGGGCCCAAAATTTAAAGGGGGNTTNCCTTTCCAAATTCCA
AAGGTTNAATTTTTCCCTTTCCTTAAACCCCCNAAAAACCCTTGGGNAAATTGGGGGGAA
ACCCGGGGNAAGTNAAAGNGGGGGNTTNGGGGGCCCAATTTTTGGGTTTAAAGGGGGGGG
CCNTTTCCGGA
Sequence 3374
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCCGCCATGGAACCAAA
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NATGCATAGGNANATTGGNACCATTTTCTTCAACCACCCCATCCAAGTCACAAAGNCCTT
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TTTCCAAGGCCAAGGGAAAGTTGGGAACCCAGGGGGGNAANGGGGGGGTTTTCCCCAATT
TTTTCCAAATTTTNGGGCCAATTTTTTGGGNCCNAACCCNGNAAGGGGGGGGGGCCCTTC
CTTTATCCNTGGGGTAAAGGGGGGGGGGGCTTGNAAAAGGGGGAATTTNGGGGNGGTTTT
NGGCCCANNNGGNNAAATTNGGCCCCCCANCCCAANGNGTTGGGTNNACCCAAAATGGGG
GGGGNAAACCAAATTNGGGGGGGGGGGGGTTNGGGCCCGGGGGGGGGGCCCCCCCCCAAA
GGTNCCAAAAGTGNCCAANCCCAAAAGNGGGGCCCTTGGGGGNAANAAAGGGTTTTTAAG
GGNCCCCTTGGGGNACCCCGTCCCAATTTNGGCCCTTTTTTTTNGGGGGCCCTTTTTTTT
TAAATTTCNCCCCNAACCCGGGGGGGGTCCCCGGGGGGGGTTTTAANGGTTNGGNGGGCC
NCCCGGGGTAAACCCCCCCCCCTTTGGNGGGCCCTTNGGTTNGGGGGGCCCCCTTNGGGT
TCCCCCCCCAAAAGGNGTTGGNGAAGGNAAACCCTTGGGGCCNAAAAACCNTTTGGNTTT
TCNCCCCCCCCTTTTTTCCCCNTTCCCCTTT
Sequence 3375
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GGTTCCATATTGNGNTGGCCATANANGNGTAAGTCTCCGCNCCACCCCGGGGGGCCAATA
GGTTCTTGNCTCCTGGGNTAAGNTGGTCCTTGGGNTGNCCTTGGGTTGGGTTTTTTAAAA
ATTNCCAAGGGGGGGGGGAANTTATCCAAGNGGGGCCCCCCCCCTTNGGGGGGGGTTANT
TTCCNTTTTTTTTTTTTTCTTTTTTTNCCCTTTTCCNCCTTTTTTTNCCTTTTTTCCCCT
TTNGGGGCCCCAAANGGAANGAAANTGGGGGGCCTTTTAACCCAAGGGGCCNAATTTGGG
GNAACCAATTGGNCCAAGNGGTTTTNGGGGGCCAANANAAACCCGGGGGGNCCCTTTTTG
GNAACCTTTTTTTGGGGGCCTNGGNAATTTTTTTAANAAAAAAAAAAGGTTGGNGAAAGG
NAAAAAAAAAGGNAAAACANGGNTTAAAANANAAAAAAAANGGGGGCTTTAAAAAATTTT
TTTNTTTTCCCTTTTTCCCCTTCCTTGGNTTAAAANGGAAATTAATTTCCTCCCCCAATG
TCCGTTTTAATATAATAANAGNANAATAATANTAATATAANANTANAAAATATTATANGN
AGNAGGGGGTTTAACCCCCCTTTT
Sequence 3376
ACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGAAGTGA
GGCAGCGGAGGACGACCTTTTTCCGGTTCCGGCTCTGGCGAGTAGTTTGTTGTCNNGTCG
ACATGGAAACCTGGCTTACCCACAATCTGCTTGTAGTCTNCGCAATGNTGTCCGGTGGNG
GGTGGNGGTTTCCNCGTNGGTCTTTCTCCCCNCCTGGCNTCCTNNCNAGGNCNCAACCCC
GAANNGTTTCCCGTTTANTCCNTNGCCCCCTTGTTGGGGAAAAATTTCAAACCCCCCCAA
ACNTTTNAATNGGGCCGCCGTTATGGATTACCCCTTAAAAAGTTGGGNAANTTGGGTTCC
GGGNCGG
Sequence 3377
ANCTGGTTTCCTGCCCAGCCTGGGGGCAATACCTTAGCCCGGTAANGGGCTCCGGAAGGG

Table 1

NTTCCCAATNTAGTTTTNGTGTCNGTCNTNGTAAGNGGTNGNTTCTTGGGTCTCCTNGTA
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TTTNTTCCCTTTTTTTTTTTTCCTTTTTTTCCTTTTTCCCCCTTTNTTTCCTTTTTCCC
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GGGNAACCAANTTGGCCAAGNGGTTTTNGGGGCCAAANAAACCGNGGNNGCCTTTNGGNA
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AAGGAAAAAAAGGGTTTANAANAAAANAAAAGGGGGGTTTTNAAAAAATNTNTTNTTTTT
TCCCCTTTTNCCCCTTCCTTGGNTTAAAAAGGNAAATTAATTTCCCCCCCAAAGGCCCTN
TTANTAANANAANATTATAANATAATAANAATAATANAATGANAAAAGGTTTAANCCCCC
TTNCCGNGGGGGCCCCCCGGCCTTTCCTTTAANGNAAAAAACCCNTTAAAGGNGNTGGGN
GGGTAAATTTCCCCCNC
Sequence 3378
TAGGGCGAATTGGAAGCTCCCCGCGGTGGCGGCCGTCCACAAATGTCTGCAAGCTACCGA
TGGGGACCCTCAAGTCTTGCTGGGTACAAGGGTAATAGGTAAGGGTATTCATANGTCNTT
ATAAGTANAAGGGGCTCCCAGTGAAGGTNGTTNGNCCATAAGTCCATGTAAGTAAGTNAG
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CCTAAGNTTGGGGCCCGNAAAANAAGGCCTTTAATTCCTTCAAAGGGGCCTTGGGGGCCT
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AAGGNAAATTCCCAAAANGGNCCAAAATTTGGGGGGAAANCCAANGCCTTTGGGGGGGGG
NAAAAGGGGGGCCTTGGNNGGCCTTTTTTTTAATTTTTTANNCTTTCNAAGANTTCCCCC
NAAAGGCCTTTNCAAGTTTCCCCCCNTNGGGGCCANCCTTGGGGGGGCCCCCGGTTTNGG
CCCCCTTTTTGGGTTNAAGGGGGTTCCCCCCCTTTCNTTGGGTNGGCCCCCCAAAGGGGG
TTCCNTTTTGGCCCTTTATTGGGGGGGGGGGGGTTTTTGGGTTTTTTTTCTTTTGGGGNC
CNAATTTTTNATAAAGGGGGNTCCTTTCCAAAGTTTTTTCCAAAAAAACCCGGGCCNCCA
AACCCCCCGGTTTGCTTTTTCTCCAATAANTNNAAAATGGCCCCCCCTTTTTNTAAACCTT
TGGGGTTNNCCCAACCCCCCCCTTTANTTTNCNTTTTAAAAAANGGNTTTANAACCCCCC
CNTTTTAAACCCTTTCCCC
Sequence 3379
CCGCGGTGGCGGCCGAGGTACGCGGGGCTTTTCACAAGTATGGNGCGCCCGTAAATAGCC
GTATATGTANATGTGTATAAGTCCTTCCTGGTCTCNCCTTCTCTTAAAAATGNCATNGTA
TATGTCCCCATATAAGTCCGNATAAGTGTCCTTTTNATATAAGNGTCTCCATANNTAAAA
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CNTTTTTTCCGGGGTCCNGGGGCCNCCNGTCTTTCCTTTAAGGAAAAACCCTTANANGTT
GGNGNGAATTTCCCCCCCCCCCGGGGGGCCTTGNCAAAGGGGAAAATTTNCGGAAATTNTT
CCCANAAGGCCTTTTAATTNCGGAAATNANCCCCNGTTTCGGGAACCCCTTTCTTTAAGG
GNGNGGGGNGGGGGGCCCCCCCGNGGTTTANNCCCCCCCAAGTCCTTTTNTTTTGGTTTT
TCNCCCCTTTTTTNAAAGTTGTAAAGNGGGGNTTTTAAAATTTTNGGCCGGGCCGGCCCT
TTTGGGGTCCGTNTAAAATTTCCAATTNGGGGTTTCCATTTAAAAGGNCCCTTTGNTTTT
TTTCNCCCTTGGTTTGGGTGGGGAAAAAAAATTTTTGGTTTTTTAATTTCCCCCGGGCTT
TTCAACCCAAAATTTTTTCTCCCANCCCAACCCAAAA
Sequence 3380
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NTTCTCCTTTTTTTACCTTATAAGGGGGAAGNCCTTCCCTTGGGANAAGGGGGGGCCTNGN
CCCCCCTTGGGGNCCCCCAAGGGGGGGGAAGGGCCCCCTCCCCGGAAAANTTCCCTTTTT
TCCAAAGTTTNCCTTCCTTTCCAAAANGAAAGGGAACCCCCAAACCCAAAGTCNTTTGGG
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TTTTTCNCCTTTTTAACCAAGGGAAGGGTTTTTTAAATTTCCAACTNAAGGGGGGTTNAG
GGCCTTTTTTGGGTTCCNAAAAAACCCAAAANGGAAACCTTAANAAAGGCCCTTTAATTT
TGGGTAAGGGCCTTTTGGTTTCCCCCCGGAAAANCCTTTTTTTGGCCTCCTTTTTNTTGG
GGGGAAACCCCCAACCTTTTCNTTTTTCCTGTTTTTTTTTNGGGG
Sequence 3381
AGGTACGCGGGCTCCTACTTGGATAACTGGTGGGGTANATGTCTAAGNAGGCTTATATTA

Table 1

505/863

CAATGGNCTCGGACCGGGNGTCNGTCCTTGTACTCTCTCCTTTTTCNGTCCGGGGGGGGG
GGGGTAATGGGCCGNTGGNCCATTTTTGATTCANGNATGCANANAAACNCAATANCTCCC
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AAGGNAAAACCCTTAAAGGTTGGGGGAATTTCCCCCCCCCCCCGGGGGGGGGCCTTNGGC
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CCGGAAATTAACCCCCGGNTGCCGGNAACCCCTTTNNTTAAAGGGGGGGGGGGGGGGGG
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TAAACCCCGNAAAGGTCCCCCCGGGGGGGGGGNAAGGGGCCCAATTTTAAAAAAAAAGGT
TTGGGTTTAAAAANAANGGNCCCCCTNGGGGGGGGGGG
Sequence 3382
CCGGGCAGGTACATAAAGTGCCATGTCAGGGCCTTCTGGGCTTCTTAACTCTGCAATNCT
NCTTCTGGNATTTGCTTTGGNCTTGGCCAATGGGGTCTATCTCANCTCCAACCANAATTC
CATTGGGTGAAAGGTGAAACCAATTTGTGATTTNTTTCTTTNAAGGTTAAAATGATATAA
AACCTNCCTNAACCANACCAATNGGCCCCGNAATTAAGGGAACCTNGGTTGCCTTTCNTG
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NCCCGGGGTTTAACCCCCCCTTTTCCGGGGGGGNCCCCCCCGGGGCCTTTTCCNTTAAAA
GGNAAAAAANCCCTTAAAAGGGGTTGGGGGGGGGAAANTTTCCCCCCCCCNCCNCCCGGG
GG
Sequence 3383
TGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAACCGCTGGATCCGAGA
AATTCAAAAAGTGACCAAACTGGTATCGAGTATCCTGCNATTCAGGTAACCTGGTCTTTA
CAGGGAAATTAGTTTTTTGGNCTAAACNTTGGTAATCGNTGTCGGTTATTACNCGGCATT
CGCAGNNAGTAATACGGGGTNGTAGTCCCCGGGNAAAGGTTTTCTTCCCTGGAACTTCCT
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ACCCNGTTCAAGTTTTTTTTGNAACAACCTGGAACNACCANGGGTTCCTTTTATANACCA
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GNCTCCTTGGCTCAACCGGGCAATCCCTTGGGGGATCCCAANAAAAATTAATTGGAACCA
AGNGNTCCNGGCCCTTTTGGTTTTTGNCCCAATTTTTTTTTCAACCGG
Sequence 3384
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CCGNGNGNCCGNCATTGNANCCCCCCCTCTTTTCCGGCCGGGGGGGGGGGGGGGGAATTG
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CCCGGGGNTTCCAAAGGNCTCCCCCCNTTNCTTTCCCCCGGGGGNNCCCCCCCNGGGGGN
CCCGGNTTTCTTNAAGNAAAACCTTAAGGTNGGGGAATTCCCCCCCCCGGGGGNCCCTTG
GCCCAGGGGGAAAATTTTGCCGNNACTTAANTTCNAAAAGGCCCTTTTAATTCCGGNAAT
TAAACCCCGGGTTCCGTAACCCCCTTTTNNAAGGGGGGGGGGGNGGGGGGCCCCCCCGGG
GTTNNNCCCCCCNAANTCCNTTTTTTTTNGGTTTTTCNCCCCTTTTTTTAANGGTTTGNAA
AGNGNGGNNTTTTAAAAATTTTNGNGCCNGTCCCGGCCCTTTNGGGGGGCCGNTTTAAAA
TTTCCCAAATTGGGGGNGGTTCCNATTNNAAAGGNCCTTGGNTTTTTTTTTCCCCTTGGG
TGGGGTTGGNAAAAAAA
Sequence 3385
ATAGGGCGAATTGGAAGCTCCACCGCGGTGGCGGCCGAGGTACACGGTCTTTGCGGATGT

Table 1

CCACGTCACACTTCATGGTATGGTAAGTTTGGTAAAGGGTTGGGNTTCTTCGTTGGGTAT
NGTCTCCGGCTATAGGTAATNTNCCCANTTACTCNCCANGGGTAAAGGGGTATAGGGNCT
TGGNGTATATCCAGTCNGCTCCTNCTCCGGGGAACCAACTCCGNGTAAANCACCGGCCTT
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ANNTTTCNGGGGGGGGGCCAANGGCCNTTCCGGGTTNAAAGGCCTTTCTTTTNTCTTTTC
CCCCAAGGGAAGGNAAAAAGTNAAAGGGGGGAAANGGGGAATTTNGNCCCGGGGNNGGGN
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GGAACCCGNTTTAAGGCCAANCCAAAGGCCNTTTTTCNTTCCCCTTTTTGGGAAATGGGG
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CCTTTCCTTTAANNNAAAAACCCTTTANGGNGTTGGGGGGGAATTTCCCCCCCNCCCCGN
GGNGGTCCCTTGGNCNNAAAGGGGNAAAAAATTTTTNCCNGNAATTTANTTTCCAAAAAA
NGGCCCTTTTTAAATTTCCGNGAAATTTNANCCCCCGGGTTTTCTNGGAAANCCCCTTTT
CTGTTAAAGGGGGGGGGGGGGGGGGNCN
Sequence 3386
TCACTATAGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATTTGATG
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TTGGTTCCTNGGACCACCAATGGGCCTTCTTCAAAATTATAATTAAAATTAAATAATGGG
GGGNANAAATGGGTGCCGNAATTTNTTTCCAANAATTAAAATNAAGGACCTTTTAATTNA
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Sequence 3387
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Sequence 3388
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Sequence 3389
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Table 1

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Sequence 3393
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Table 1

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Sequence 3395
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Sequence 3398
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Table 1

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Sequence 3399
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Sequence 3401
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Sequence 3402
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Table 1

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Sequence 3403
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Table 1

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Sequence 3408
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Sequence 3409
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TAAAAAAGGCCCCTTGGGGGGGGTTGGCCCCTTA
Sequence 3410
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NGGAATTCCCCC
Sequence 3411
CCGGGCAGGTACTGATGACACAAACATGGCAGACACTTTCACCGAGATTATGACCATGAT
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GAGTCCCACCANGCAGCACTCTGTNAAAACCCCTGGGAAACTTGGATTGGCCANCCNGAA
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GAAGTGGCTTNNGNTTGGGGANAGGATGGCTTNGTAAAAAAATTGNCCANACCTTTNGGN
AGGGGTTTTGNAAAAAAAAACCGGATGTGGGGCCATGNCCANGNCTAAGGCCGGGGCCAC
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Table 1

CAANTTTACCTTGGTNCCAAAGGGTTCNATNGTAATTCCAAGGCAAAGNCCNANCCGGGG
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Sequence 3412
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CTGTGACAGGAAACATCTCTGTCCATGCCAGCATAGTAGTTGTATGGACTTCTAACCAGT
TGAGTTTTTTAAAGCATTGAGGATTTTTTCCTCTTACCAACTCCTCTTCAGGTTTTTAAA
GACCCANCCCCTTNCCAATCTCAAAAGAGAAAAAGGAAACTGAGTTATCTTGAATAACAT
AACTTTTTAATCAAATGTTTATTTTGGCTTGTGGATCTTGGTGTTATTTAAAAAATTGAG
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TTTGGAAACCTCTGCGCCATGAGAGCCAAGTGGAGGAAGAAGCGAATGCNCCAGGCTGAA
GCGCAAAAGAAGAAAGATGAGGCNGAGGTCCAAGTAAACCCGCTAGCTTGT
Sequence 3413
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TGTAGATGTTATTGATCAGAACAGGGCTTTGGTCCGATTGGACCTTGCACTCAAGTGAGG
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AAAAGGGAAAANGCCCAAGGATGACAGGATTTTTGATTCGCTTTTTAAAAGTTTAATTGA
AAGGGCAAAAGAAANAATGGANGGANACCAGAAATAATTCAAAGAAATGGAAAGTTTAAA
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Sequence 3414
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GGCAGCCAGAGAACTTGAACTTGGCCCTGTGCAGGGCCTTAATTCACAATGCTTCCCTNG
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GGGGGCCCCCCCCCCCANTTAAAGGGGGAAANAGGGGAAA
Sequence 3415
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TACTGTAACTCAGGGATTCTGTCATATGAAGTGCAAACATTACNCGNNGCTTGTAACCAT
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TATCAGTATAACNCGTTCNNACNCTTCGGAGNGGGGGGGNCCCCGGTTACCCCAGCTTTT
TGGTTTCNCCTTTTTAGTGGAGGGGGTNTAATTTTGCCGCGGCTTTNGGGNCGTTANATT
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AANTTGGTTAAAAAGNC
Sequence 3416
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GTCCTGGGAATTGNGCTCCTGGTGACTGGGGATTGTTAACTAAGCAATTGTGGCCTTNTA
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NCAANCTCAATTCCATNNTCNCCCCGNGGNANGGGAACTTAACCAANTTCAACTTTGGGG
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NCCAATNNCCTCTNCCANCCCCNTNTNTGNTTNGGCCTTGGCCAAGGCNTNGGNANTGGG
GGGGG
Sequence 3417
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Table 1

513/863

CCTCTCCTACTTGGATAACTGTGGTAATTCTAGAGCTAATACATGCCGACGGGCGCTGAC
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TTCAACAAAATTCCCACAACCAACCATTANCCGAAGNCCCGGGGGAGGCCATTAAATAGG
TGGTTAAAAGGCCCTGGGGGGTTGCCCTAAAATGGAAGTNGAAGCCTTAAACTTCAACAT
TTAAAT

Sequence 3418

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CGCTGTCGGGGTTCGAACCGATACAAGAACCTTCCACCTACCTGGTGCTTTGGNCTCATC
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Sequence 3419

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AAAAAACCAAGGTTTTNNCANTTAAATTTTAAACCTTTGGCCAACCCAATTGGTTTGTGT
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ACCTTTAGNGGTGGGNNGANTTCCCCCCCCC

Sequence 3420

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TATGGTGGTGGGATCTGGAGCACCTGGTTTGACCGTGACCTGACTCTGGGCTGGACGCCG
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ATTCTTAGTTCNCCCCATTTCTTTGGCCCACCANGCCCAATTCTCAAAGGAAGGGAAGGC
CTTGGGAAGNAAAGGGGGGGAACCTTCNCTTGGAAGNCCCANGGGGCCCCTNNTTCAAAA
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Sequence 3421

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Sequence 3422

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GGTCTTAATATGTTAGTGCAACACACAGTATATATATGTTTAAGCAACTATTGGTGAGTG
GGGGCTACAGGGATTACCAGGAGATGATCTCTCAATTCAGAATGGCATTATTGTGACAAA
GGCCACCAGATACCCACTCCTCATAGACCCACAAACTCAAGGCAAAACTTGGATTAAATC
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Sequence 3423

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GAAAGATACTCAGCAGCACCCAGAAGGGTGGAAAGAAATGCCGCCTCCCTTCCCTTGGTT
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Table 1

CCANANGNAAATGGAAACCAAGNGGGGCCNACCAANCAATGGGGGAAGGGGTTCTTTGGA
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CTTNTTTAANGACTNGNAAAGGGGGGGATATTAANAATTTNGNCCNGTCCCGGGCCTTTT
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TTGGTTGGTTGG
Sequence 3424
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GGCCCAGTGGGNTNCCAGGCCANANGGACCTTCNGGGNGGGGTTAGGCCAAAACCAAAAA
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Sequence 3425
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CNAGGTAATNCCCCTTNCNCCTTCTTGNTNAACCCCTTTCGGGGACTCCGTCTTTCNTTA
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Sequence 3426
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATCTCCT
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TACCAGGGAAA
Sequence 3427
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Sequence 3428
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GACCGGCGCGAGAGGCGGTTCTTGCTATATTGCCCCAGGCTGGTCTCGAACTCCTGGGCT
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TACCTCGGCCGCTCTAGAACTAGT
Sequence 3429
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Table 1

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TATTGAATGGAGATCAACTATACTTGGT

Sequence 3430

GTATCGCTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAGCAT
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AGATATGTTGTATGAGTCGTCGTTTCTGTCAGATTTGTATTGTTTCCAAGGGAAAAGCTT
GGGGGAGGACTCAGTTCACAAAATGCAAAACTCAACGATCAGATTCACGGACCCAGAGCT
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AAATTTTTGTGAAGCACAGTGAGTGACAATCATTTTTCTTAAGGCCTGGAAACGATTTTC
TGTATGATGTTACTTTATGTGAATTCTCATCTCAATAAATGATG

Sequence 3431

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CATCTACTCTTTGAAGCTTCTGCCCAGCTTGCATTGTTTCTAGGAGAACCTGCGTCATAC
CTTTATCTATAGCCTTCCCCTAGGTCTTCAGAAGCATCAAGTTTTAACTGTGGACATTGG
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CTATAGAATGAGATGTATCCTGCAAGATGGCCCGAA

Sequence 3432

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T

Sequence 3433

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GCCATGAATGGTTGCATGATCTGCCTTGCCGCAGAGTACTGTTTGCATTAATAAATTAAA
GCTCCATAGGGTCTTCTCGTCTTTGCTGTGTCATGCCCGCCTCTTCACGGGCAGGTCAAT
TTTCACTTGGTTAAAAGTAANGGGACAGCTGACCCCTCGTGGAGCCCATTCATACAGGTC
CCC

Sequence 3434

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GGTGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTG
CAGCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGG
GCTTTAGGCTGCTTTCCCTACCCGGCTCCCCCGCGTACCTGCCCG

Sequence 3435

AGGTACGCGGGGGGAGGCGAAGAACGCAAAGCTGAGAACATGGACGTTAATATCGCCCCA
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Sequence 3436

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CCGGGGNGTCNTTGGTCCAAGGGGAAAAATTTTTCCNGAAATTNAATTNCAAAAGGGCNT
TTTAATTTCCGGAAATTAACCCCCGGGTACNNGAAACCNCTTTCCGTAGGGGNGGGGGGG
G

Sequence 3437

CCGCGGTGGCGGCCGCCCGGGCATGGTACAGGGGAAAAGAGCTCTCCATTTCTCAGCAGG
GGACACCCCGGTCCCCACTGCCACTTTGTTTGCCCTCCAAGGGAAAAACCTCTCAATACC
AGGTCCAGGAGCAGCTGGATGGGATCACTCAGAACCC

Table 1

Sequence 3438
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CTGTTCTTGTTCCACCTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTC
GCGGCCAAATGGAAGGACGATGTTATTAAATTAT
Sequence 3439
AGGTACGCGGGGGCCACGTCCAAGCAAACCGGGAAAGGAGAGGATCCCGGAGCCGCGTGA
TGGCCAGAGGCCTGGGGGCCCCCCACTGGGTGGCCGTGGGACTGCTGACCTGGGCGACCT
TGGGGCTTCTGGNTGGCCTGGAACTCCGGGGGGGTTATTNACTTACCCTTGCAACGACNG
ATTCTGCAAAGNAGGNACTTTNCATTGGCCACAGTCCACAAGGNCACGTNAACATGGAAA
GNATTTTCACCCATTGGTNCACCAGCACATTGNCCNCAATGGCCATGGGTNCACACTTCA
TCGTANTAAGCCATTNTTGGGCATTGGGACAATACCCCAACGNATTCACNGAACCATTGN
GACCATTTTCACATTGGAGGGGATTTTTACCACCCCATTGGGGCNCAATAAGGCNCAATT
GNGGCTT
Sequence 3440
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Sequence 3441
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Sequence 3442
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Sequence 3443
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GAGCCAGAGCACACATCTTCCATGCTGTCCGCTGATTGCCTCCAAAATTCCNAGAAAAGA
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GGGGGGGGGGGGCCCC
Sequence 3444
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TCTATCCAACACACTAAATGCTTACATTAGCAAAGAAGAAAGGCTAAAATGAACGAGCAT
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Table 1

ATCTTGGTTTTCTGAAAAGACAAATTAATGGGTCTCTTGGCAAGACT
Sequence 3445
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GGTTCTTCATTATTGCCANCTTTGGGGCCAANGGTTGGCCTTTTTTGGCTTGGGCCATTC
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NTTGGAAAAAGTAATTGGTTATTTAAAAAAAGGCCAAAAAAGGGGAAATTTTANCCCAAA
ATTGGGTTGGGGGAATT
Sequence 3446
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TGAAGTGAACTTCATTTGTCAGCGTTCGGTACCTCGGCCGCTCTAGAACTAGTG
Sequence 3447
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CAAGGGTTCAATCTGTAGTCCTTGCAGCAGAGAATTGATTCTTCATACTCCTCCAGCTCC
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AGGAAAACACTTCTGGGCCTTCCGTGTGGAACCATATTCATACCT
Sequence 3448
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CTGCCACACTCAAGTGGAG
Sequence 3449
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GGGGAATTCCCCCCCCNCG
Sequence 3450
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CATAAATGTTA
Sequence 3451
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Table 1

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GCCC
Sequence 3453
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GGG
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AAGCCTTGG
Sequence 3455
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GTCTCGCTTTCGGCCTAAAGGGGTTCCAACAAAAGGTGNAATTGANAGCCTCNTTNTGCC
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GGGGTTTTAAAATTNTGGGCC
Sequence 3456
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Table 1

519/863

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AAGGAACCAGNTTAGAAATGGGACCCATTCTTTTAAATTCAGGGCCTCCTTAAGGGTTTC
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AGAACC
Sequence 3458
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GGACGATGTTATTAAATTAT
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TGCTACTG
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Table 1

520/863

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CCNTTCCGGGGGGGGNAAGGCCNAAGGAA
Sequence 3464
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CCTTTAANGNTNGGGGNAATT
Sequence 3465
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Sequence 3466
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TTCCTCCCCATGTTC
Sequence 3467
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CTGGGAAATTGGAAGGGTTTAAAAAAAAA
Sequence 3468
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GGCCGNTTTT
Sequence 3469
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Table 1

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TNAAA

Sequence 3470

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AAGAGTCTGCACTGGGAGGAACTCCTGCNCATTACCCAGCTTCCCTTCTTGCAGAAAGGG
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CTCCCTTTAAGTTGGCCCGGAATTTCCCCGCCCCCCACAAGTAGNAGGTTCNCTNGGTAG
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Sequence 3471

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Sequence 3472

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TGACCATTTGACNTGTGTCTGGTGGAAAAAAATGGGGGAGCCTCCTTGGTTTGGTGGGGA
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GAAGGGGTTC

Sequence 3473

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ATTGTCTGTGATGGCCCTTTTCCCTCGTTGTTTGGCTATCCACCACTCACCATCCTCATC
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Sequence 3474

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Table 1

Sequence 3475
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AATTCNATTTTTTAACCATTTTTGATNGTCCGGGAACCTTGNAAGTCCACCANGNCCACC
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Sequence 3476
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Sequence 3479
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Sequence 3480
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CGGACTCCAGGTGAATGAGTTTTTCTTGAGTCACTGCAAAGGCAGTTTTCACTAGGCTTC
ACTT
Sequence 3481
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Sequence 3482
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Table 1

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Sequence 3483
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Sequence 3484
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TGAGGGAAAATAAAACTGCCAAATCTTCAAGGCAAAAAAAACATGACTATATTTTTTGAA
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TACCCT
Sequence 3485
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Sequence 3486
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Sequence 3487
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Sequence 3488
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Sequence 3490
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Table 1

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Sequence 3492
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Sequence 3494
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Table 1

525/863

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AGCGAACCCGT
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Table 1

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Sequence 3507

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Sequence 3508

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Sequence 3509

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Sequence 3511

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GGCCGNTCTAGAACTAGTN

Sequence 3512

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Sequence 3513

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Sequence 3514

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Table 1

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Sequence 3515
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TGTTCCCTTTAGT
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Sequence 3517
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Table 1

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CCGGGGGGGGGGGGGGGNAAAAAAAACCCCCCCCCN
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Sequence 3524
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C
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AACACTCAGAAGGTTTTACAAGTAAAAGTAAGTCAAATCAATAGGTCTTTATTTCATATC
TGTAATGGGTTTAAGCTCTGCGGGAAGTGTTAGCAGCTATATGAATTAGGAAGAATTTAG
AAGACAATCCCTAAACACATGAAATGTCCAAGTAAGAAGATAACATATTTATCCAAATAT
TTAAAGTGAAATGCTCCAGATATGGGGAAGCTTACAGTTTTTCAAGCAAAGCTTTTTAGA
AAAAATTATGGAA
Sequence 3529
CCGCGGTGGCGGCCCGAGGTACTTGCCCCCAGGCCCAGATAATTTATTTAAAAACTTTTT
TTGTAGAGACAGGGTCTCACTATGTTGCCCAGGCTGGTCTCAAACTCCTGGCCTCAAACA
ATCCTCTACCTCAACCCCCCTAAGTGCTGGCATTCAGNATCAAGCTGCCATGCCTGGCTA
CAAATCTTAATGTTTTCCCCATGGCTTCTTTTTCTGGCGTTCTTTTCTCAGGTAATGGAA
GTGGGCAGAGAATGATCCTTTCCCTAGGCTCCAAGTGTGTAAGAATTAAAGAAAGAGGAA
AGAAACACAATGGCTTGATGGTCGAGGACAGGTTTATTTTAAAGAAAACAAACCCAAGAG

Table 1

TGGCTTCTGGCTGAGTTAGATCAGAGGCATGCTCTCTTACAGACTAAGAGTTTTTTAAGG
GATTCAGGGTGGGAGAGTTTACCAGAGCTTGGACTGCTTCTGNGTCTCTTTAAGTGTGCT
TATCTGGGANGGGAGTTTGTGTGTCTGTTTCCCATACATCNTTCCTGCAGCTGCAAGGCA
TACCCCCAAGGTC

Sequence 3530

CCGCGGTGGCGGCCCGCCCGGGCAGGTACAGGGGAAAAGAGCTCTCCATTTCTCAGCAGG
GGACACCCTGGTCCCCACTGCCACTTTGTTTGCCCTCCAAGGGAAAAACCTCTCAATACC
AGGTCCAGGAGCAGCTGGATGGGATCACTCAGAACCCGGCGTTAGAACTAGTG

Sequence 3531

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAACCAAAACAAACAACTG
TGTATAGACTGCTGTTTTCTTTTTTATTTGAAATGAGGCATTTTGGNGTTCTTTCCCCTA
CCATACGGCCTGTCTGCCCTTCCCTCCCCACATTGGCTCCAGCAGAGTAGCCGAAGGTCC
TGCCGCCGCCGCCACCACCACCACTGCAGCAACAACAGCAGCAGCAGCAGCAGCGCCTGC
ATAGCTCCACTCTGACCTGNGAAGGAATGGGGATGAGGCCAGGAGCTAGTGTCTACCACG
GCCACACAGGGAGCAGTGTTGGGCCCTTAGCCCCCAAGGGGCCTGCTATGCATGTGGCTT
TTTTNTTTTTTTAAACACAGTNAACTAGATTAGTCNGTNAGGGTTTTTA

Sequence 3532

CCGGGCAGGTACCCAATCCTGTCCTTGCCGGTCCCTCCTNGCCGGGTGGGAATCTTCGTG
GATTATGAGGCCCATGACATTTCTTTCTACAATGTGACTGACTATGGCTCCCACATCTTC
ACTTTCCCCCCGCTATCCCTTCCCTGGGCCGCCTCCTGCCCTATTTTTAGTCCTTTGCTAC
AGCATTTGGAACCAACAANCACTGCTCCTCTGGCCATNTTGCTCCNNTGGATGNGGTGAG
GGACTAAAGGANAAAGCTTACCANCCTATAACNCACCANTAAGGGCTTTGGNAATTTGGG
GTCCTGGGTCCCNCCATGGGGGCCTTTGGNAGGGACCCCGAGTCNCACNTGACCAAGGTT
ATTCCCCCTTGNAAAACNTTGGAGGCNTGCCGCCCCCAAGTTATTCCCNAAGGGAATTTC
CCTTCTNGTACTGGAATCCCCTTTTTGGGTTCCNTTTTTGGCTTTACACAANGGGCCTTG
GAAAAGTTTCNTTGNTNCAATTGNAAAAAACCCCAACTTTTNATTTTTTTNAAA

Sequence 3533

CACCGCGGTGGCGGCCGCCCGGNCNGGTNCTTTCTTTTCCTTTCCACTGCCGTGTCTGTG
GGAATAGGTGGCTAGGCATTGAACAAAGAGCTCCGTGGCCTTGGCNCGTGAGCACCAACG
CCTCCTGGTTGATGCTGGACACCTCGGGGGAGCTCTTCATGATCGACCCGGATGCGGGGA
TAGAGGCAGCGAGATGAAGCCCNCTGNTNCCCCCCCCTTGGGCTTNACCCACGGACCACC
GTTCACNCCATCTTTCCCGCCCNNCNACGCCGGGNGTTCCTTCGCNGTACCCTTNGNGAA
ACGCTTCTAAGAAAACCTAGGTGGGGATTCCCCCCCGGGGNCTTGCNAAGGGGAAAATTT
TTCCGGAATATTTCCAAAGGCCNTTNAATTTTGNATTAACCCCGTTTCCGGAANCCCTTT
CNNAAGGGGGGGGGGGGGCCCCCCGGGGTTACCCCCCAANACCTTTTTTTTGGTTTTACC
CC

Sequence 3534

AACCGCGAATTGGTTTCCCCGANGTGNCGGCCGCCCGGGCAGGTACTNTCTTTCAGTTAC
CCNTGTGCCTCCAGAATTTNATGNTGCTCCACCTGGGGGCGGATATAAATTACCTCTAGA
TTGTCCAAAGCCCAGTCTTTCCCTTCCCTGTGCAGCCTTAGAAACTAAGTAGCAGTACCA
GCATGGTTAGGTTCTGTTGAGGGCTCTCTTCTGGGTTGTAGACTTCCAGCTTTCTCACTG
NGTCCTCATGTGGCCTTTAGTTAGTATGTGTAGGATTCAAGCAGTGTAACCAGGATTTCT
CCGGGTCTCTTATCTCTGTTGGTCTCATTTACTTTCACTCCAGATAAGCTTTCTTCATGT
TGCAAATGACATGGTCATAAATAGCCTCCTT

Sequence 3535

TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGG
AAAGCAGCCTAAAGCCCGGGACAGGCACACAGGCCCAGGTGTGTAGGCCACAGCAGCCGC
AGTCCTGAAAGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGCCCAGGATGCCTCGCC
TGTTCTTGTTCCACCTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCG
CGGCCAAATGGAAGGACGATGTTATTAAATTAT

Sequence 3536

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCGGCGCGGGTCCTCCATATGCTGAG
CGCCGGTCCCCTGGGCCCACTTTTCTTTCTCTATACTTTGTCTCTGTTGTCTTTCTTTTC
TCAAGTCTCTCGTTCCACCTGAGGAGAAATGCCCACAGCTGTGGAGGCGCAGGCCACTCC
ATCTGGTGCCCAACGTGCATGCTTTTCTCTAGGGTGAAGGGACTCTTNGAGTGTGGTCAT
TGAGGACAAGTCAACGAGAGATTCCCGAGGTGAAGGTACCTCAAATTTGAGCAGTTTTTG
TGTTTTGTGTAAATTAAAGTAAAAAGCAAGTCCACAATAATGTTTTGNAATACTGCACAC

Table 1

CAGTTCTACCAGATTTTGTAACTATCAANATTTNAATGAAAAAA
Sequence 3537
GAATTAGTTCGCGCGCAGATTGCCATTTGCGGCATGAGCACCTGGAGCAAAAGGTCTCTG
AGCCAGGAAGATGCTCCTCANACACCTAGACCAGTGGCAGAAATTGTGCCATCCTTCATC
AACAAAGATACAGGAAACCATAAATATGATGTCAAGAATTTTGTTGCTAAATTTTGCCAC
AAGGGAGCTTGAAGTTTAACCCCCTGTCTGGAAGATGCCAGCCCAGCCATTTACCCACCA
GNCTTACAAACAAACATTGTTACCCTCCGGCCCGCCTCTAAGAAACCTAGTTGGGAATCC
CCCCGGGGCCTGCNAGGGAAATTTTCCGAATTATTCAAAGCCTTTAATTCGGAATTACCC
CGGTCCGAACCCTTCCGAAGGGGGGGGGGGGGCCCCCNGGGTNACCCCCCAGNCCTTTTT
TGGTTTCCCCCTTTNTTAAGGNTGGAGGGGGGTTTTAAATTTTGGCCGGCCGCCTTTGGG
GCGGNTAAATTNCAATTGGGGTTCATTAAGGNCTTGGTTTTTCCCTTGGTTGGTTGGAAA
AAAATTTGGGNTTAATTCCCCCGCCTTTCAACCAAAATTT
Sequence 3538
CCGGGCAGGTACCATGAACAAGCTGGCCACAGCCATGCAGGAGGGGGAGTATGATGCATG
AGCGGCCCCCCAGCAAGCCTCCACCGGTTGAACTGCGGGCTGCTGCCCTTCGTGCAGAGA
TCACAGATGCTTGAAGGCCTGGGTTTGAAGCTCCGAAGATCCGAGAGNACAGTTNTTAAG
GTAGTTGAAGNAAGTTCACTTCAAGNATTTAAGGGGAGNAGGGTAGTCTAAGNTGAAGGN
CCAATGTTGCCGGCCTGAAGCTCTTCCTTGGGANGAAANNAAGGTNTGGGACCAGTTGCC
TTGCNCAAAGGNATTNCCAGGAATTGNAGNCNGCNATTNCGNAGNAANAGTTCCAAGGAC
CTTCGGTNTNGGGAGGGAAGNACCCNAGGGCNANCTTGGCTTGCCGGAAAAAGNAAAGGG
AGNAAAAGAAGTTTTTTGTAGGGGAGGACCAAAATGGGGAATTG
Sequence 3539
CCGGGCAGGTACTTGTGGAACAACATCAAAAGGTGGCAGGCCATATACAAACAGTTCGAC
ACTGACCGATCAGGGACCATTTGCAGTAAGTGAACTCCCAGGTGCCTTTGAGGCAGCAGG
GTTCCACCCTGAATTGAGGCATCTCTTATAACCATGGATCATTNCCGAACGCCTAACNTC
AAGAATGAAAAAGTGGGGGAAACCATTGGGATTTTTTGGACAAACTTTCATTCAAGGCNT
GGCATTGGGGTCAAGGGCTTGGGACCGCCCCATTGGTTTCCNCGGTGGCCNTTTCAAAAA
TTCTTCTTTTGGACCAAAAAGNATGGGGCNACCTTGGGAACCAAAAATTCCCCANGGGTT
GGAANCCATTCCCAAGNGAAGTTGGGCCTTGCAAGGCTTGGACCTAATTGGTAATTTTCC
CCTGGAAACCTTGGGGAAGGCCCCCCCAAGGAACCCCCGGCCCCCCTTTTCAACCCCGGC
CCTTTTGGCCTTATTAAGGGGAAGGTTCAACCCCTTGGGGAAGGCCCCTTCCNGGGGTTC
TTNCTTTNCCCCAAGGGGGCCCCGGAATTCCCTTGGTTNCTTGGGCAAAGTTNCAACCAA
TTTCTTTTTTGGTTGGGGGGGGCCC
Sequence 3540
AGGTACCAGNCAAACGTCACTCAGATGCAGTCTTCACTGACAACTATACCCGCCTTAGAA
AACAAATGGCTGTAAAGAAATATTTGAACTCAATTCTGAATGGAAAGAGGAGCAGTGAGG
GAGAATCTCCCNACTTTTTCAGAAGAGTTTAGAAAAAATGATTGAAAAAAANACCCTTTT
TGGAAGCCAAAAGCNTGAATTGACAACNTTCNCCAGTNGNAATTTTCTTTGAAGGNAAAA
ANTGAATACCNCCAACCAATTAAATTAAAAAATTTTTTTGGAGTTTTCCTTACCNTTAAA
NGTTAAAATTTTCNAAGGAAANAAACATACCTTTNCCAAATAATTCNCCAAAAACCCCAN
AAATTAAAAAAAANTTAATTTNGNTGNTCTAGTTNGAAAATTGGTTATGNATGGAATTGG
TTATTTTTCTTAAGCCNTTAAAATTGGTTAAATTNAAACCCTGGTTGGAAANCTTTTTNA
CCAATTTTGGTAAAAAATTAANNTTATTTATNTGGAAGNNAAGNTTTCCTTAAAAATTTT
TATTGGTTCCTTTT
Sequence 3541
CCGCGGTGGCGGCCGGGGCTGGCGCGGTGCATCGTGGGCACTGTAGTTTCCGCCGCGTTT
ATGGCCGCGTTAAGTCTGAGTGCCGCTTTGAGTTGTTGAATGAAGTGAACTTCATTTGTC
AGCGTTCGGTACCT
Sequence 3542
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACATGTTGTGGGTGCCGC
TCCGGGAGTCATAGCGCAGCCAGATCCCGAAGTTCTTCACCCGCACGGGGGACTTCTCAA
ACACCTGCCCACAGTAGACAATCTCCCCTGAAGACTTCTTCATCTTCTTTAACTGAGATA
CAAAGTACTGTGAAGATATTGTAAACACAGCTGCATGGGGAGGTCAGCTTGAGCTAAGAG
CTCTGTCTCACATTTTACAAACACCAATAGAGATAATACAGGCAGATTCTCCTCCCATTA
TAGTTGGTGAAGAATATTCAAAAAAACCACTAATACTTGTATATATGAGACATGCATATG
GCTTATGAGAACATTATAATTCGGTTACACCGGTTGGTAAACATAGNTACTGAAAATTGC
AGCTAATTTATACAATGTTGTACCTGCCCGGGCGG

Table 1

Sequence 3543
CGCGGTGGCGGCCCGCATAATTTAATAACATCGTCCTTCCATTTGGCCCGCGACTGCTCT
GGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTGGAACAAGAACAGGCGAGGCAT
CCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAGCCTTTCAGGACTGCGGCTGCTG
TGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCTTTAGGCTGCCCCCGCGTACCT
Sequence 3544
CGCGGTGGCGGCCCGNCCGGGCAGGTACTTTCATAAACAAATAGGAAAATGTGATCTATT
GCTTCTTTTCTTGGTCCGTGCCCCTCGCCTTGCTAAGTCAGTTTTTCGACTGCCTGTGTG
TGTGTGTGTGTGTGTGTGCATGTGTGTGTGCGTATGTGTGTCCAGAGGCCACTGATCCAA
GTCCAAGTGTATTTAGAAATTATTTCAGTGGCTNACAAAGGTCTTANAGGCCACTACTGN
GCTGGGGAAATCCATTGAGCTTGGCTTGTTCTCTCTTGCTCTTGCCAATGNGCACTNTGC
TTACATGCAAACACTCCTTAGGAAGATGCCAGTAATCTCTATTTTATGNACCT
Sequence 3545
ATTNTAGGGCGAATTGGAGCTTCCCGTGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGAA
GAAGGACATTTCTGGTAGCTGGTCGAGGTTGGTGACGTTGAGGATCTAAATTAAGACAGT
ATTATAGGAATGGGGAAGAGGAGGCAAAGTCAAGAACAATGTGAACTATCAAACCAGCAG
GACCTTACTATAAATGAGAGGGAGGAAGGACCAAGGATGCTTCTTATGTAGCTGCCTTCT
ATTCCTGGGTGACTGGTTGCACAGTCTCCTTAGAGAATCCAGGAACAGAGAGAATATATA
CCTTCCACTGGAAGAATCTCAAACAGCGCTGCTTACTCAGGATCAGTGGCACCAGCCAAC
TCAGCTTTGGGACAAACCCAGCCAAGTGACCAGGACACTTTAGTGCAAAGAGCTGAGCAC
ATTCCAGCAGGGAAACGAACTCCGATGTGCGCCCATTGTAACCAGGTCATCAGAGGACCA
TTCTTAGTGGCACTGGGGAAATCTTGGCACCCAGAAGAATTCAACTGCGCTCACTGCAAA
AATACAATGGCCT
Sequence 3546
GTGGCGGCCGAGGTCGCGGGGACTGACTGGTTGAGCCGGGTAGGGAAAGCAGCCTAAAGC
CCGGGACAGGCACACAGGCCCAGGTGTGTAGGCCACAGCAGCCGCAGTCCTGAAAGGCTG
CAACACCCAGACCTCCAGGAGAGACCAGGCCCAGGATNCTCGCCTGTTCTTGTTCCACCT
GCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGGAAGGA
CGATGTTATTAAATTAT
Sequence 3547
CCGGGCAGGACTGGGCTAAAAAATAGCCCTCAGCATCGCAATTCCTGATGAGGGTGTCCC
GGTTGGAGACCATGCCCCAAGCTGCTATGCCAATGGCCACAATATTCTCCTCTGAACTCC
TGCTGATGGTGTTATCTCTCACCACCTCCCCGATGTACAAGAAGAACATAGGTAAATTTN
AAGAGGAAGCCAATATTTATGCTGCCAAAACAGCTGTCACTGCTACCAATGTGTCAGCCC
ATGGAAGCCAAACTAACTCGCCCTCAACTCCCAACTCGGCTGGTTCTTCCAGTTCTTTTA
ACATGTNAAACTCTGGAGATTTGTTCATGAGCCGTGCAGTTCACTTTAATGGGGATTCTT
TACCAAGGGGCCCAGGTNTGGNAGCCAACGTTNCAATCACAGGNGGGATACCCCTTCGNC
A
Sequence 3548
CCGCGGTGGCGGCCGCCCGGGCAGGTACCGCCTCTGTCCCTACCTTGTCTGTTAGCCATG
TGGCTGCCCCATTTATCCACCTCCATCTTCTTTGCAGCCTGGGTGGCTATGGGTACACAA
ATACAAACATGCACTCCCCCACACACACACATACATGGACACACACAGAGGCATATCATG
CATTATCTTCCCTCATTCATCGATATTCTCAAATGGCTTATTACACAGATTTACATTCAC
AAATATTCTATTATGTAAATGTAAATCTATTCTATTATGTGAATGTAAACCTATATAATA
TATTTAGCCATTTTCTCAGTTGGATATTTTGGTTATTTCTATGTTGNCACAATTTTAAAT
CACATTGAAATAAACTAGGCCCCTTTGGACTCCTTTCTTTCTCTCT
Sequence 3549
CCGCGGTGGCGGCCGCCCGGGCAGGTACCCTAGTTCCACACCCAAATCCCATAAAACAAT
TATCTCCAGCCTCTCATCCTCATCCCATCCATTTTTGGTTAGACCCCAGGTAAAGGGTAG
GGTGCCCAAATACTTCCTTGCTGAGCTGGGAGGAAGGCAGAGGCAGAAAATGTAAAGCTC
CAGATTCATTTTATACAGGTCCTTCTGGGCTCTCACTGCCAGTCTCTGAGCTTGATCCAT
CTCCCCAAGCCGAAGCCCAAAGGGAAATGCAATGAGGTATTTCAAAGGCTTATTCTTAGC
TTCTGAGCTTCTGAATGAATTGCATTCTATTCATCCAGGGAGCCCTGGATGCCCCTGTTT
TCTTGAGGGATGTCTTGGTCCC
Sequence 3550
CTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGGCAGACAC
CCAGCCACTCTGAGCAGAACTGACAGCATGAAGGCACTCCTGGCCCTGCCGCTGCTGCTG

Table 1

CTTCTCTCCACGCCCCCGTGTGCCCCCCAGGTCTCCGGGATCCGAGGAGATGCTCTGGAG
AGGTTTTGCCTTCAGCAACCCCTGGACTGTGACGACATCTATGCCCAGGGCTACCAGTCA
GACGGCGTGTACCTTTAGTGGTTGCCAATCTGGGCATGTCTGAACAACTGGGTTATAAAA
CTGTATCAGGTTCCTGTATGTCCACTGGTTTTAGCCGAGCAGTACCTGC

Sequence 3551

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGAAGGCAGTTTG
GAGCTGGGGCTAAGCAGCTGTCGCACGGTCAGATCATGGGCTCCACCAAGCACTGGGGCG
AATGGCTCCTGAACTTGAAGGTGGCTCCAGCCGGCGTCTTTGGTGTGGCCTTTCTAGCCA
GAGTCGCCCTGGTTTTCTATGGCGTCTTCCAGGACCGGACCCTGCACGTGAGGTATACGG
ACATCGACTACCAGGTCTTCACCGACGCCGCGCGCTTCGTCACGGAGGGGCGCTCGCCTT
ACCTGAGAGCCACGTACTATAAGGAATTCAAGTTAACAGAGGCTTGATTTATATAAAAGA
AAGCTGCAGTTTTAAAGTTGTGTTCCTTAAAGACCAGATTATAGCTTATCTGAATGGGCT
TGACACTTTCAAATGGAATAAAAGTTACA

Sequence 3552

GAAGCTCCCCGCGGTGGCGGCCGAGGTACCGGCGGATGTCGGTGGTCTACGGGATCGGCA
CCTGGTCTGTGTTGGGCTCACTGCTTTACTATAGCCGGACAATGGCGAAGTCGTCAGTAG
ACCAAAAGGATGGCTCAGCAAGTGAAGTACTTTCAGGATGCTTTTTGTATGTATATCACA
TAGAGTAGGTTGGTTTTCCTGAGTAATTGGGATTCCAACTAGATAGTCATTGGTGTGACC
ATAATAAAAACAAAAGCTAAAATAAAAGCATCAGATTTAGACTGGCGCTGTGCCCTCTAC
CACTATATGCCAAAAAATTGCTTCTCTAGTGCCATTTTGATATTATATCTAGCTATAAAT
AATACATGGACTATTGTTTTCTATTGAATGTCAAAGACTTACTGGGTCTTTACACCTCTG
TAAAGTGGAGGTTTT

Sequence 3553

AGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGGGAAAAGAGCT
CTCCATTTCTCAGCAGGGGACACCCTGGTCCCCACTGCCACTTTGTTTGCCCTCCAAGGG
AAAAACCTCTCAATACCAGGTCCAGGAGCAGCTGGATGGGATCACTCAGAACC

Sequence 3554

AGGTACTGTTACTTCCTTTTGCTGTCAGAGGGTTGTTGACAATGGCAAGGGGGGATGTTA
GTGAGATCCAGGTGGTGGTGGCTTCTTGGTCCACTCANCTTGCACACATGCAAGAGGAGG
GTCTGTGGNCCCTNANCCNNGCTGGTGGCCTCCTTCCTCAAGCTTTAACTTGTGCCCTCC
CTGGCAACAGGGAGTCATGGNTTAATGTCACCTGTCATGCCTCTTTCTTCAGGGAAAATA
TTAAAAGGCTCAAATCCAAGCTGTGACTTCCCTTAGACAGTGTAANCCTGTAGGGTGCAC
CCCCAANTTTATGTCCAAAGGCTGCCTNANAACCCTGGAGGGAGCAGCGCCCAGCTGGCA
GCTCACTCTCCCCTTGCANTNCACTGGCCTTTTCGCAACCCAGGCT

Sequence 3555

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGGTGAATGACTGGCCCACTCTCCCTTGCTCC
ACTTCCACATGTTTCTCAGCGGTCGGTCATGTTTCAAGCTGCTTGTGCAGCTCACCGACA
TTTCTTACTGGGTTAATCTCTTCAGAGACATTCAACTTGCTGACATCCCCACATTTTCCC
AGGAGATTATAAGCTGCCCCAGCAGCAGGGTTTGGGGCAGAAGTGAGAGGGGCAGGCTAT
CTCACCAATCTCCTCTTGGACTCAGGAACTCTTGCAAAGGTTTCAAAGATGAGGAAGAAT
CTAAAAGAAAAGATCATTAAGCTGTGCCCAGTGTTCCTCTTGCAACAATTCTGGAACAAA
ACTTTACCCTGTTTCCAAATTTAAGCTAAATTCGTTGTATTATG

Sequence 3556

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTGAANATGGAT
AGCAATGGTGTGATCACAGTAAAGCCTGACTTCACGGGCCTCAAAGGACCCTACAGGATT
GAGACGGAGGGGGAGAAGCAGGAGCTGTGGAAATATACGATCGACAATGTTTCCCCCCAC
GCACAGCCGGAGGAGGAGGAGCGGGAACGGCGAGTGTTCAAGGATCTTTATGGCCGGCAC
AAGGAGTATCTCAGCAGCCTCGTAGGCACCGACTTTGAGATGACTGTCCCAGGTGCCCTC
CGGCTCTTTGTAAATGGAGAGGTCGTTTCAGCCCAAGGCTATGAGTATGACAATCTCTAC
GTCCACTTCTTTGTAGAATTGCCAACTGCTCACTGGTCAAGCCCAGCATTCCAGCAGCTC
TCAGGAGTAACACAGGACCTGCACCACCAAGTCCCTGGCA

Sequence 3557

CCGCGGTGGCGGCCGCCCGGGCAGGTACCATGGTGGTGGGAGAAAATGACCACTGGCCAA
GAGGACTGCTGACCTGTGCACCAGATGGAAAAACTGCAACTCAGAAATGTAAAGTGAGTC
GACCAAGGCTAAAGCGGCAAAACCACTATACTTTATAACACAGAGTTTGGCACTATTTCC
ACTTTGTTCTCTCTCAAAGATGAAGGCTCAGGAGGAGGGAAGATAAAAACAAATCACTGG
AGAGTCCTGGCATGCCGGAACATGGACTCTANCTAGCAAGAAGGGCTCAAGGAGGTGGCC

Table 1

TTCTCCTAGACCTCAACTTTGATGCAAAAGCTGTTTTGCANCCTGAACAAAGACAATCCA
ATCCTNCANCAAATGGCNGTCATTTTTC

Sequence 3558

CTATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACATCTACCTAAAGGACT
ATTATGTGGAATAATACATACTAATGAAGTATTACATGATTTAAAGACTACAATAAAACC
AAACATGCTTATAACATTAAGAAAAACAATAAAGATACATGATTGAAACCAAGTTGAAAA
ATAGCATATGCCTTGGAGGAAATGTGCTCAAATTACTAATGATTTAGTGTTGTCCCTACT
TTCTCTCTCTTTTTTCTTCCTTTTTTTTTATTATGGTTAGCTGGGACTAGAGGAACGTGC
CACCATGACTGGCTAATTTTCTGTATTTTTTAGTAGAGACAGAGTTTCCCATGTTGGCCA
GGATGGTCTCGATCTCCTGACCTTGTGATCCACCCGCCTCAAGCCTNCCAAAGTGTTGGG
ATTACAGGTGTGAACCACTGTGCCCGGCCTGTGTACCT

Sequence 3559

ATANGGCGAATTGGNNCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTCCTTCC
ATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTGGA
ACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAGCCT
TTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCTTTA
GGCTGCTTTCCCTACCCGGCTCAACCAGTCAGTCCCCGCGTACCT

Sequence 3560

AGGTACGCGGGGGCAGCCTAAAGCCCGGGACAGGCACACAGGCCCAGGTGTGTAGGCCAC
AGCAGCCGCAGTCCTGAAAGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGCCCAGGA
TGCCTCGCCTGTTCTTGTTCCACCTGCTAAGAAATTCTGTTTACTACTGAACCAATTTTC
CAGAGCANGTCGCGGCCAAATGGAAGGACGATGTTATTAAATTAT

Sequence 3561

TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAGGAAGCATGGCGGCTTCT
GGGGAAGACTTACGAAACTTTNACTCATGGTGGAAGGCAAAGTGGGAGCAGGCGTNTTAC
ATGGCTGACGAGGACCTTGCCTTCCTCCCGCCTNATCTTTTCAAACTNTGTNGTGCTCTT
GATGCTCTGGCCACCTTGACCTTCCTTTTGNTNCATGAATCCCCCAGTATCATTCTTGCT
GGGGGACGCTTTTCTCTTGCTGTCTCCCACGGTTGGAATGCACTTTCCCTGGATCTTACA
ATGGCTGGTGTTTTCTCATCACATGTCACATCCTTAATCANACGGTTTTTCTTGACCCCT
GTCTCCAAGTATGGAGTGTCCTGCACCCATCTTCCTCTGGTCCTATCACCCCCGCGTTAC
CT

Sequence 3562

CTAATACACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATA
ACATCGTCCTTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAAT
TCTAGCAGGTGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTG
GGTGTTGCAGCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCT
GTCCCGGGCTTTAGGCTGCTTTCCCTACCCGGCTCAACCAGTCAGTCCCCGCGTACCT

Sequence 3563

ATAATTTAATAACATCGTCCTTCCATTTGGCCGCGACTGCTNTGGAAAATTGGTTCAGTA
GTAAACAGAATTCTAGCAGGTGGAACAAGAACAGGCGAGGCACCCTGGGCCTGGTCTCTC
CTGGAGGTCTGGGTGTTGCAGCCTTTCAGGACTGNGGCTGCTGTGGCCTACACACCTGGG
CCTGTGTGCCTGTCCCGGGCTTTAGGCTGCTTTCCCTACCCGGCTCAACCAGTCTCCCCG
CGTACCTGCCCG

Sequence 3564

CCGCGGTGGCGGCCCGAGGTACAGAACAGTAAAGTTAAAACGGATGTCTCCATTGATCTG
CCAAATCGTTATAGAGAGCAATTTGTCTGGACTAGAAAATCTGAGTTTTACACCATACTG
TTAAGAGTCCTTTTGAATTAAACTAGACTAAAACAAGTGTATAACTAAACTAACAAGATT
AAATATCCAGCCAGTACGCGGGGGGCTATTTAGGACGGAAGCTCGGTTGGTGTTTCTCCA
GAAGTTTCCCCCTTGGGCGGTGGTGGAGGTGGTAACCGTGATAGTAGCAGCTCCGGCGGC
AGCAACAGCGACTACGAGGGATGGCGGCGGCTGCAGCANGAACTGCAACATTCCANAAGG
TTTTTCCAGAGCTTCTCGGATGCCCTAATCGACGAGGACCCCCAGGCGGCGTTAGAGGAG
CTGACTAAGGCTTTGGAACAGAAACCAGATGATGCACAGTATTATTGTCAAAGAGCTTAT
TGTCACATTCTTCTTGGGAATTACTGNGTTGCTGTTGCTGATGCAAAGAAGTCTCTAGAA
CTCAATCCAAATAATTCCACTGCTATGCTGAGAAAAGGAATATGTGAATACCATGAAAAA
AACTATGCTGCTGCCTAGAAACTT

Sequence 3565

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGGAAAGCAGC

Table 1

CTAAAGCCCGGGACAGGCACACAGGCCCAGGTGTGTAGGCCACAGCAGCCGCAGTCCTGA
AAGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGCCCAGGATGCCTCGCTGTTCTTGT
CACCTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGG
AAGGACGATGTTATTAAATTATGCNGCCG

Sequence 3566

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGATTT
TTATGGGACTCTTTATTAGGGTATTAAGATATTGAAAATAATACACGTAAACCACAAAAG
AGTAGCATTCCATTTTCTTGAAGTGCACATGATATTATGAACAATCAAATGCATTATTTT
TATCATTAATAGTTTAATCATTAATTATCTCATAAGTCAATGCAGAGAGTGAAATTACTA
TGAATTAAACTTCTGTTCACAATGTACTGGGCGGGTGAAACGATTACCACCCATAGTGCG
AGGAGGAGCCATCGACAGATACTGGCCCACCGCCGACGGGCGCCTGGTTGAATATGACAT
ANATGAAGTGGTATATGACGAAGATTCACCTTATCAAAATATAAAAATTCTACACTCGAA
GCAGTTTGGAAATATTCTCATCCTTAGTGGGGATGTTAATTTGGCAGANAGTGATTTGGC
ATATACCCGGGCCATCATGGGCAGTGGCAAAGAAGATTACACTGGCAAAGATGTGCCTCG
GC

Sequence 3567

AGGTACGCGGGGGAAACAAATCAAATGTTTGTTCTCAAATTCTTACTCTGTCATTTATTA
TTCTCCATGTTTTTGTAACTGCTTCCTTGGAGATATTTAAACATAAATATATACAGAGAG
GGTGAAGATGGAGGAGTGCTTTTACAGTTCACAGTCCGTCTTTTTCATGTGTGACAGGTT
TTTGCTGTGTTGCCCAGGCTGGAGTGCAATGCCACAATCTTGGCTCACTGCAGCCTCAAC
TTCCCGGGCTCAATCGATCCCCCACCTCAGCCTCCCGAGTAGCAAGGACTACAGGCGCAC
ACCACCACACCTAGCTAATTTTTGNATCTTTTGTAGAGACAGGGGTTCACCATGTTGTCC
AGGCTGGTTTTGAACTCTNGGGCTCAATTGGTCCTAGCACCTCANCCTCCTAGGTGCTGG
GATTACAGGTGTGAGCCGCTGTGTTCAGCCAATACTCTNAACGTTTTTACTTTTCACTTT
TAAAAATTAACTCTTTTTATGAAAAAAGTNGAATTTTTTAAAGAGCAGAGAAAAGCNCAA
TGAAGACAGAAAGATCACCTGTNTATTCTTATTGACCAAAGATGATCTATTTGGGGTAAA
ATCCTTTTTTTTTTTTTTGA

Sequence 3568

ANGTATCAGTCTGTTGTTTCTTCATTTCTTCTTTTTCTATGCTCTTTTTACAATTTCAGC
TACTCCAGAAGCTCAGATTTTCCCTATTCCAAGCTATGAGATGTGATGCCACATNTGGAT
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AACTAAATTCATCATCATTCTCTCCTTACACCAGTTCTCACCCTGACTTTGCCATTTTTC
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TCTCGGGCTCGGAACGAGACTGCACGGATTGTTTTAAGAAAATGGCAGACAAAACCAGAC
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ACACCCTGCCGACCAAAGAGACCATTGAGCAGGAGAAGCGGAGTGAAATTTCCTAAGATC
CTGGAGGATTTCCTACCCCCGTCCTCTTCGAGACCCCAGTCCTGATGTGGAGGAAAGAGC
CACCTGCAAGATGGACACCAGCCCACAAGCTGNACTGNGAACCTGGGCCTTCCCGCCCAT
GCCACCGGNCTGTGGGTCTTNTGAAGGGACCCCCCCCAATCGGACTGGCCAAATTCTTCG
GTTTGNCCCNGGGATATTATAGAAAATTNTTTGTNTGAAATNATGAAAAATAAACACACC
CNGGNGGCNAAAAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNCCCCNNNAAA
AAAAAAAAAAAA

Sequence 3569

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ACTGTGAGGAGGGGAGATTCAGTGTGGCGGGGGACTGAGTGTGGCAGGGACTCCCCAGCA
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CTTGGAGGCCATGTGGGCCATGAAGGTCCACCACCCTGTTGCTGTAGCCAAATTCGTTGT
CATACCAGGAAATGAGCTTGACAAAGTGGTCGTTGAGGGCAATGCCAGCCCCAGCGTCAA
AAGTGGAGGAATGGGTNGTGNTTNTTGAANTNAGAAGGANACAACCTGGNGCTNAATGGN
AGCCCANGATGCCCTTTGA

Sequence 3570

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TCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGT
GGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAG

Table 1

CCTTTCANCTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTCCCCGCGTACCT
Sequence 3571
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AAAAAACTTCATCAGTAAGAAGAATGAATAAACAGACTAGGTTGAATCCATACAATGGAA
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GAATCGTGTTCCTGAATGAAAGAAGTCAGAGATGAAAAGATGGGCCAGGAGTCCAGTTTC
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GGATGCAGAAGAATTCAGGACTGGAGGGGCAAACTCCGTAAGCAGGGGCTGTCACCGATT
CCCATCTCCCTCTATAAACCTCTCTCTTTTCATGTCGTACCTGCCCGGGCGGCCG
Sequence 3572
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Sequence 3573
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TGGTGCTCACCTGTAATCCCAGCTACCCAGGAGGCTTGAGGCAAGAGAATCACTTGAACC
C
Sequence 3574
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Sequence 3575
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Sequence 3576
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AGCCTTTCAGGACTTGCGGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCG
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Sequence 3577
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Table 1

GGAGTCTTCCTGTTCATCTGCCAAATCAGGGGCTGGTCTAGACGCCGCTCAGGTCTCCTG
GCAGCTCTAACATCTTCCATGGCTCTTTCACAGCATCTAGCTCCACAGTAGTCAACATAA
TTTCTCATTTTTGTTGAAAATAAACTGGCAAATGCTTCTTGGAAACTCAGTGCTAAAATT
AAAATGAACCTCAGTCTTCTTTCCAAGGGGT
Sequence 3578
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TAAAGCCCGGGACAGGCACACNGGCCCAGGTGTGTAGGCCACAGCAGCCGCAGTCCTGAA
AGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGCCCAGGATGCCTCGCCTGTTCTTGT
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GGAAGGACGATGTTATTAAATTAT
Sequence 3579
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GTGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGC
AGCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTCCCCGCGTACCT
Sequence 3580
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GACTTCAAATTGTAGTATCATGCCAAGATTT
Sequence 3581
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Sequence 3582
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CTGTANGGTGCAACCCCAAGTTTATGTCCAAAGGCTGCCTCAAAACCCTGGAGGGAGCAA
CGCCCAACTGGCANCTCACTCTTCCCTTGCAGTTCACTGGCCTTTTCNCAACCAGGCTAA
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TGGCT
Sequence 3583
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GGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGCTTTAGGCTGCTTTCCCTACCCGGCT
CAACCACCCCGCGTACCT
Sequence 3584
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TT
Sequence 3585

Table 1

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TGGAGGTCTGGGTGTTGCAGCTTAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTG
TGTGCCTGTCCCGGGCTTTAGGCTGCTTTCCCTACCCGGCTCAACCACCCCGCGTACCT
Sequence 3586
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TGAAGCAAGAGCTACGAGGAGCCATGAGGCAGCTCCCCTACTTCATCCGGCCAGCTGTCC
CCAAGGGAGATGTGGAGCGTTATTCAGACAAATATCAGATGTAGGTCCGATTGACAATGC
CATCGATTGGAACCCTGATTGGCGGCGTCTACCCCGGGAGCTAAAGATCCGAGTGCGGAA
GCTACAGAAGGAACGGATTACAATTCTGCTCCCCAAGAGGCCCCCTAAGACCACAGAAGA
TAAGGAGGAAACAATACAGAAACTAGAGACCCTGGAGAAGAAGGAAGAAGAAGTAACTTC
AGAGGAGGATGAGGAGAAAGAAGAAGAAGAAAAAAAAAAAAAAAGTACCTGCCCG
Sequence 3587
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Sequence 3588
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Sequence 3589
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ATTTTGNTCTCTTTTCAAAA
Sequence 3590
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GGCCC
Sequence 3591
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GAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGATGTTGANCT
TTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCTTTA
GGCTGCTTTCCCTACCCGGCTCAACCACCCCGCGTACCTCGGCCCGTCTAGAACTA
Sequence 3592
ATCACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGGCAG

Table 1

CCTAAAGCCCGGGACAGGCACACAGGCCCAGGTGTGTAGGCCACAGCAGCCGCAGTCCTG
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GTTCCACCTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCAA
ATGGAAGGACGATGTTATTAAATTAT
Sequence 3593
CCGCGGTGGCGGCCGCCCGGGCAGGTACAGGGGAAAAGAGCTCTCCATTTCTCAGCAGGG
GACACCCTGGTCCCCACTGCCACTTTGTTTGCCCTCCAAGGGAAAAACCTCTCAATACCA
GGTCCAGGAGCAGCTGGATGGGATCACTCAGAACC
Sequence 3594
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGAGGCGAAGAACG
CAAAGCTGAGAACATGGACGTTAATATCGCCCCACTCCGCGCCTGGGACGATTTCTTCCC
GGGTTCCGATCGCTTTGCC
Sequence 3595
ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGACG
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TGTGTCCCGGCTGCGGAAACGCCAACTCCAGGCGATTGGCGCGAAGGAGGCGAAAAGGGC
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TTACTAGGTGAACA
Sequence 3596
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Sequence 3597
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Sequence 3598
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CAGGCCCAGGTGTGTAGGCCACAGCAGCCGCAGTCCTGAAAGGCTGCAACACCCAGACCT
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Sequence 3599
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TTTTAATTTGCTGGAGACTA
Sequence 3600
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CCTAACCTAANAGCCCGTGACACTGCAGCAAGGTGCTGCCCACACTTGCACCGTCACGAA
GAAAAGCGC
Sequence 3601
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Table 1

TTGTTAACCCCAGAGTCTTCTGGCTGTGCTGCCTCCTCTGCTTTTAATCTTCTGTGGATA
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TATTTCAGCACAGCAGGTGTATGGCGAGAAGAGGGATAATATGGTTATACCGGTCCCAGA
GGCAGNAAAGTAATATT
Sequence 3602
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGCAGCCTAA
AGCCCGGGACAGGCACACAGGCCCAGGTGTGTAGGCCACAGCAGCCGCAGTCCTGAAAGG
CTGCAACACCCAGACCTCCAGGAGAGACCAGGCCCAGGATGCCTCGCCTGTTCTTGTTCC
ACCTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGGA
AGGACGATGTTATTAAATTAT
Sequence 3603
TTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACGGCTTCGGAGGC
TAGGCCGCCGCTCCAGCTTTGCACGTTTCGATCCCAAAGGCCCTTTTTAGGGCCGACCAC
TTGCTCATCTGAGGAGTTGGACACTTGACTGCGTAAAGTGCAACAGTAACGATGTTGGAA
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TGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGGAAGGACGATGTTATTAAATTAT
Sequence 3605
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Sequence 3606
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CTTTAGGCTGCCCCCGCGTACCT
Sequence 3607
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Sequence 3608
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AANACCCCCTTTTAAAAAAAAAAATTNCCCCCCAAAAAAAAAAAAAAAA
Sequence 3609
TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGNCNNGCCAGGNNCTCNCAAGANGNN
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Table 1

GGAAACTACAGTGCCCACGATGCACCGCGCCAGCCC
Sequence 3610
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TTTCANGACTGGCGGCTGCTGNGGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCT
TTAGGCTGCTTTCCCTACCCGGCTCAACCAGTCAGTCCCCGCGTACCTCGGC
Sequence 3611
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GAGNCCCANNCCTGTCTTACAGGNCCAANGAAAGTTTGGTTTGGCAAGGCCATCCNGGAG
NCNNNAATCAAAAACCAGCTGNCAGGGGAGNCCCATTTGTCTCCCAAATA
Sequence 3612
CACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGTGTTCACCTAGTAACCCC
AGCTTCGGGATAAGGACCTGCAGCTCGGGCGCGACCCGGAAAGGGAATCCGCCCTTTTCG
CCTCCTTCGCGCCAATCGCCTGGAGTTGGCGTTTCCGCAGCCGGGACACAGCCCACCCTC
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CGCGTACCTGCCCG
Sequence 3613
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CTCAGTGGATTAAGGCAGCTGTAACTTGTTTTGGACTGCAGTTACAGAGGCCAAGGTATA
GAAGAAAGGTAACGAGAGTGCCAGGATAGGAAAGTTCTGAGATGAAGACAACCTGGCAGC
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AAGCTGGCCTTGCCCACAGAGAACTGCCTTTCTCCATATGCAGCCACCTCCCTCAGGGCA
ATTCCTTGCCTTGGATCCTCACTGCACCTGCTTCACCAGCATCTTGGCTCTTCATCTCCC
TACCCCCAGAGAAGCTTTCCATTTAGGAGCTCGCAACGCCCTTCCTAGGCCATGCCAGTG
TTTT
Sequence 3614
TCACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAAGGTACCCA
ATCCTGTCCTTGCCGGTCCCTCCTCGCCGGGTGGGAATCTTCGTGGATTATGAGGCCCAT
GACATTTCTTTCTACAATGTGACTGACTATGGCTCCCACATCTTCACTTTCCCCCGCTAT
CCCTTCCCTGGGCGCCCTCCTGCCCTATTTTAGTCCTTGCTACAGCATTGGAACCAACAA
CACTGCTCCTCTGGCCATCTGCTCCCTGGATGGGGAGGACTAAGAAAGCTACCACCCTAA
CCACAGAGGCTTGGAATTGGGCCTGGCCCCCATGGGGCTTGGAGGGACCCGAGCCACTGA
CAGGTATCCCCTGAAACTGAACTGAGCCCAAGTATCCAAGGGATTCCTCTGTCTGATCCT
TTGGTCTTTGCTACCAAGGCTGAAGTCTGTCATGAAACCACTTATTTTAAAAA
Sequence 3615
CCGCGGTGGCGGCCGAGTCTTCTTCATCAACGAGGAGGCCAAGAGCACCACCTGGCTGCA
CCCCGTCACCGGCGAGGCGGTGGTCACCGGACACCGGCGGCAGAGCACAGATTTGCCTAC
TGGCTGGGAAGAAGCATATACTTTTGAAAGGGTGCAAGATACTTTTTTTAAACCNTTATT
GAAANGGGAAAGTGGACCTGCAAACATTCCAGTCACAGGGACAACCCATCACAGGACAAT
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TTTCCGATTTTTAAAGCTTTTTTTGANTCCCGGTCCNACCCCCCAAGGGGG
Sequence 3616
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCCGCCGCCGCCACAGCGGCCCCCTCTCTG
AAGAATGCAGCCTTCCTAGGTCCAGGGGTATTGCAGGCAACAAGGACCTTTCATACAGGG
CAGCCACACCTTGTCCCTGTACAGTGGACAGCTTAGCATGTTGACAACTGAGAATAAAAA
TGCTTAAGTTCTGAACTGGGACAATGTAAGACACAACGACNAAACACTGGAAATGGAAAT
TCAATTACATCATTGTAGACTGGCTACTGCTCTACATGATTGTGACCAAAGTCAGAGAGC
TGAAAGAGACTTCTTTCCAGAGAACAAGATNTGAACAGGTTTTATTTACAGAAGACAATG
AATTCTCATTTGTCTAACCTAAAAGATTACAGAATCTTTCTCAACAAGTCTA
Sequence 3617
CCGGGCAGGTACCCTAAAGCTATGTAACTTATATAAATAGTTTCAAAATGAAGCAAAATA
TGATAGAATAAATGAAGAAATATATAAATCTTTAAACACAGTCAAAACTTTTAATGCTCC
TCTCTCAATATTTGATAGGGCAAATAAACAAAATTTCATAAGGATATGAAACATCTGAAT

Table 1

AACATAATTAGTGAATCAAAAGAAACTGACATTTATAGAACAAAGTACTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTCTGCCTCTNGGGGGTTCCTTGAGGGCTTTGATGATCAGGGC
AGAGGCAGAAGGCNCCACCTCAATCTGGGCCTGTCTGTTCTGAATGGTCAGTTTCAC
Sequence 3618
CTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGTTTAGCCACGATGGCCGCCAGGCGG
CCCAGGAGATGGCCTCGACCATCAAGCACCAGGACCTGCACCTNCGCCATCTTCNGCAGC
CGCTTGGAAAAGCCCCGCGTACAGAATGGATTTTGGAAGAGGGAGTCACCACTGGACCTN
CAAGGGAAGCCCACNTGCNGACATCTACAACCTTCGATCTCCTGACGAGTTTATTGTTGG
CCAAAACCAGGCTTTGATTGAACCAGGATGAATGCGGGTGTTGGAAGTAGAATATATATA
TACATATAAAATTGGTTGGGAGCCACGTGTACTTTTCATTTTGGCTCACCGNGGATTTTC
TCATAGGAAGTTTGGTCAGAGTGAATTGAATATTGTAAGTCAGCCACTGGGACCCGAGGA
T
Sequence 3619
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GGAGATGGCCTCGACCATCAAGCACCAGGACCTGCACCTCCGCCATCTTCGGCAGCCGCT
TGGAAAAGCCCCGCGTACAGAATGGATTTTGGAAGAGGGAGTCACCACTGGACCTCCAAG
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ACCAGGCTTTGATTGAACCAGGATGAATGCGGGTGTTGGAAGTAGAATATATATATACAT
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GGAAGTTTGGTCAGAGTGAATTGAATATTGTAAGTCAGCCACTGGGACCCGAGGATTTCT
GGGACCCCGC^GTTGGGAGG
Sequence 3620
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAAGAAGGACATTTCTGGTAGCTGGTC
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CAGTCTCCTTAGAGAATCCAGGAACAGAGAGAATATATACCTTCCACTGGAAGAATCTCA
AACAGCGCTGCTTACTCAGGATCAGTGGCACCAGCCAACTCAGCTTTGGGACAAACCCAG
CCAAGTGACCAGGACACTTTAGTGCAAAGAGCTGAGCACATTCCAGCAGGGAAACGAACT
CCGATGTGCGCCCATTGTAACC
Sequence 3621
CACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACCGAACGCTGACA
AATGAAGTTCACTTCATTCAACAACTCAAAGCGGCACTCAGACTTAACGCGGCCATAAAC
GCGGCGGAAACTACAGTGCCCACGATGCACCGCGCCAGCCC
Sequence 3622
GCCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAAGTTAAGCTCCATTTACCAC
TCACTTGACAGTGTCCTTTAAATCTGAACTTGCTCTTGCTCATGCGGAGCTTGGCTAAGA
NAAACCAGATCATTANTGCAAGCTGTAGGTGGGTGGGTGAGTGTGTCCCCTCCCACACTG
CTCTCTGGTGGGTTTGGGCAGTCCCTGGCTCTAGTCTCTGCTGCAGATTCTCAGGACCAA
AATGTGGGTGATTTGTCTGGGTCCAGGCAGGAGACAGAAATCACACAAGCTCTTTTATTA
GAGATAATATAAAGAATGATTAACCAGGTGACAGTAAAGGGCAGGAAGGGAATACAAAGG
TATCCATGGAGGTAGCACCACAGGAAGCAGGCATCACACTTGAGGCTTGGGA
Sequence 3623
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCGGTGGAAAA
ANTTTTATTTTTTTTTTTTCCCCGGAGCAATTNGTAAATGCTATGCGGTAAGAGGAGTTAC
CTGTGGAAAGGTGGTTAAGAGATTAGGTAANGAAAAGGAAAGGACACCAAAATAAAGTGC
TGCGGAAGAATTTTTGTCCAGCTGTGAGACGACGAGTGCGTGAAGTGAAGGCGATTGAGA
GGGGCTGAGGGAATTGTCCTCTGTGGAAGGGACTTTCTTTTGGCCCTAGGCCCCTTCCTG
CCCCTGTCGTCAGCAGAGAGATGGAAAACTTGATGACTAGCTCCACCCTACCGCCCCTTT
TTGCANATGAAGACGGTTCCAAGGAGAGTAATGATCTGGCTACCAC
Sequence 3624
CCGCGGTGGCGGCCGCATAATTTAATAACATCGTCCTTCCATTTGGCCGCGACTGCTCTG
GAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTGGAACAAGAACAGGCGAGGCATC
CTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAGCCTTTCAGGACTGCGGCTGCTGT
GGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCTTTAGGCTGCTTTCCCTACCCGGC
TCAACCAGTCAGTCCCCGCGTACCT
Sequence 3625

Table 1

CCGCGGTGGCGGCCGAGGTACTTAAGCTCATCGGTTGTGAAAACAAATCTGATGAGGTAT
CGAAGGAGCCGTCTCCCACCTTTCTTTGAAGAATTTACAGCCTCATCCCACTGTTTGCTC
GTTATGTAGACAGGATAGTTGTTCAACAGCTGCTTGCTTCCCTCTGTCGGCTGGTCAAGC
TGGCTGTGGTATCAGGAGTTGGTTGTGGTGCTGCAGAACCATCTTCAAGTAATCTAAAAC
GGTCTGGCAGGGCACTGGGATGCTCTCTAATTTCCTTCTGAGCTCTTCATTTTCTTGTTG
CAGTGAAATAACCTCCTGCTCCAGCTCTTGGCATCGAGGACAATAGCCTTCCTCGTCCTC
CTCCTCCTCTTCTTCTGGCAGTGTAGATGAAGATGGGTGGCCATGGGGAATTCGGACCGT
TGCTGGGGGAAAGTCCAG

Sequence 3626

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTTCTTCCGCCGCCG
ACTGTCCTGAGCTGACTGCTTGTTACGGATTTTCCTCCTGACCTTCTTGAGGACCCTCTC
CTCTGCCTTGGTGAGGGGCAGGTGAGAGGGCAGGGAAACCCCTTCCTGCCCCAGCAGACG
CTTCTCCTCATCGGTCAGGAACAGGGTTTGACAGGGCAGCTGGGGGTAGGGGCAGGAGAA
GATGCAATAGGAGTGAGGAGGGGGTCATCCCATTTGCAGCACCCAGGCTACTCCCCCCAC
ATGCCTTCTGGAGAGTGTTTCCTCACTGGGAGACAACTTTAATCTANAGGTGGGGTGAGG
GGCAGAGACTTTAAT

Sequence 3627

CCGCGGTGGCGGCCGAGGTACCATGTTCAGGAAACCAAGGACGATATTGCTCTACTGTTG
GAAACAGAGTAATCAAATTTTCTGTGCTAGCCTTAATTCCTGCCCTCTTTAAGAGGAGCT
TAATAAAATGTAAATATGCAGAATGTTTACTTTTGGATTGTCCCATGGTGTCCCTGGAAT
GCTCCGAGTGCACAAGCTTACCGCAAGGCCGACCACACGTTCTCGGGAGTTCCTGGACAG
ACCGTTCTTCACAACGACCACGCTCAGGTGTAACTTCACCTGGGTTCAAGGAGACCGTGT
TGGGTGCCAAAGATGTAGGGGAACCTGCCTGATACACCACCCGCAGGCTCTCCCCTTCCC
GGTGGAGACGAGGGAATGAGAAAAGAAATAAAGACAAAGACACAAAGTTTAAGAGTTAAC
AAAA

Sequence 3628

CTATAGGGCGAATTGGAGCTCNCCGCGGTGGGCGGCCGCCCGGNCAGGTNCGCGGGACCC
ATAGTAGGGCCTAAAAGCAGCCACCAATTAAGAAAGCGTTCAAGCTCAACACCCACTACCT
AAAAAATCCCAAACATATAACTGAGCCCCTCCACCCCATTTGCTCACACTATCCTGTCAT
CTTTGTATTCTTGCTGCAGTTCCCTTTGGGTTCCATGTTTTCCTTGTTCCCTTCCATGCC
TAGCTGGATTGTAGAGTTAAGTTTATGAATATGAAATAAAATCTAAATAGGCCGGGCGCG
GTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGACGCAGGCGGATCACGAGGTCA
GGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCCATCTCTACTAAAAAAAAAAAAA
AAAAAAAAAAAAAAGGTTCCCGCGGGGC

Sequence 3629

CGCGGGTGGGCGGGCCGAGGGTACAGAAGCANANCAGNAGTGTGGTCCCTGAATCTGTCT
CACCCCCATGATCTTTACACACAGAGACCTTCCCAGGAGCTGTGACTTGAACTTCACAAT
CTGCAGGGTCCACCCAGGAGCCGTGTCCTCCTCACAGGCAATTGGATCCCCTCCTCTCTC
AACCTGTGTGGGAAGATTTTGTGAGCAGCCTCGGCGCACCGGATGTCGTCTTTGCCATCC
CCAGTGGGCGCTGGGGCCGCGTCTGGAGAGACGGTGGCTCTCCCCGCGTACTTTTTTTTT
TTTTTTTTTTGACTGAATGCGAGGATTTAATACCAATGCGGGCACAAGAATTTTNTTAGA
AAAGGTCAGTGGGGAGGGGATCATGGGACACCTTTGGTTTCAACAAAC

Sequence 3630

AGGTACAATAAAGATTTTAGAATTCATCAATTTGCACACTTATGATAGATGCACTTTCCT
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AAATGACATATTATATTAACTGTTATACTAAGGAAAATATAAAAATGAGTTCTATAACAG
GGGCTCTGCAGGTCATGTGGTCATGCCAAGGACCATATGTGCTCAAGATTCTCATGACAT
TTTGGAAGGAGGTTGGGCTTTCTTTATCTTTCCTTTCTTNTCTCCCTTCCCTTCCCCTCC
CTTCCCTTCCCTATTTTTAAACCTAGGNNTTGGTATTTTCCTGGGGTGATTGGTGACTTT
GGAAAATTGGN

Sequence 3631

TTTTTNNNTTTTTTTTNTTTATTTTAGGNTTGNGCTCTACTATCNTATAGGGCGAATTGG
AGCTCCCACCGCGGTGGGCGGGCCGAGGTNCAGATCTGGGGAACTAAATATNAAAAATGA
GTGTGGCTGGATATATGGAGAATGTTGGGCCCAGAAGGAACCGTANTAGATCATGAATAT
TACAACAGCTTTNGTTTTGAGTGGGTTACGAACATATTGAANATGAATTTGGTNTATTGA
AACNCCACCAGCTNTTATTNNCNACNAAGNGGGCCCACGAAAATCCCTNGACCCCTCTTG
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Table 1

TTCCACCAAGATNATTNTCNCCATATTTNTNGTTTATNGNTNTGNCAATTGGTTCTTTNG
NTGGAAAAGCCCCCAATNCAAANGNAATATNTTTCATCCGTTCCATNGATTTTTNCNCCT
GCATTCCATATAGGGNTNATANTGGCCTTCCACCTCTTTGGTNGNAACANTTTCCATTNT
ACCNAAAAANTANCTTNGNTAAAATTCCCCGCGGGTNNTNCAAAAAATTAAAAAATTANT
TCTCCAACNNANANCCAAGGGGAAAACCTTGGNNNTATNTTCCCCTTGGGCCCCCCCAAT
TTCCCCTTTTTTNANAGGGGGA

Sequence 3632

GGCCACTGTAACCAAGAAAGTGGCTAAGAGCCCAAAGAAGGCCAAGGTTGCNGAAGCCCA
AGAAAGCTGCCAAAAGTGCTGCTAAGGCTGTGAAGCCCAAGGCCGCTAAGCCCAAGGTTG
TCAAGCCTAAAAAGGCGGCTCCCAANAAGGAAATANGCGAAACGCCTACTTCTAAAAACC
CCAAAAGGGCTTCTTTTTTTCAGNAGCCACNCACCTGATTCTCAAATAAAAAAGGAGGCTG
GGATANATTTTTCTTGTNCCNAAGGAATANCATATGAGATAAATTACNATAANATTNAAG
TTACCCTTNNGGGCCCCGTTTCTTATGAAAACCTAAGGTTGGGTATTCCCCCCTCGGGGT
NNCTTGGCNAAGNGGAAAATTTTTCCGGGATTTATTCTAAAAGNCCTTTTANTTTCCGGA
ATTAACCNCNGGGTGTCNGAAACNCCNTCCNGGAAGGGGGGGGGGGGG

Sequence 3633

AGGTACGCGGGGACACAGGCCCAGGTGTGTAGGCCACAGCAGCCGCAGTCCTGAAAGGCT
GCAACACCCAGACCTCCAGGAGAGACCCGGCCCAGGATGCCTCGCCTGTTCTTGTTCCAC
CTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGGAAG
GGCGATGTTATTAAATTAT

Sequence 3634

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTCCTT
CCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTG
GAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAGC
CTTTCAGGACTGCGGNTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCTT
TAGGCTGCCCCCGCGTACCT

Sequence 3635

ACTATATGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACACAGGC
CCAGGTGTGTAGGCCACAGCAGCCGCAGTCCTGAAAGGCTGCAACACCCAGACCTCCAGG
AGAGACCCGGCCCAGGATGCCTCGCCTGTTCTTGTTCCACCTGCTAGAATTCTGTTTACT
ACTGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGGAAGGGCGATGTTATTAAATTATG
CGGC

Sequence 3636

CGAGGTACTTTTTGGCAGAAAGTTGACCCAAGAGTTTACTGAAGTCGCTGGTGAAAACTC
CATCAGCATGCCTGGCATTTCTGGATACATCATAATAGGGTGTGTCATTTTCAGCTAATG
CATTTTGCAACATGTCAATGTCTTCTTTTAATGAAACTTGATCAGGTTCATTTGCTCCCT
CAAAGGGTATTCTGTCACCCAACCTGAGAGCAGAAGGTGCCCTGTAAAGAGGCCATGCCG
AAGTCTGTGAGAAGAGCACACTGAGAAGAGTCAGGAGCACAAGGAGCTGGGCCTTATTTC
TGGTGTCCATTTCTGTGCCTCTCGCCCAGTCGTGCTCCCCCGGAGCTGACTGTTCTGGTT
TGTTTTGAAGCTGTCTTAGGTGCTGAAGTCCTGGGAGTAAGAGAAAGGCTCCACCAGTTC
TCTGCCCTTAGCAATGGCTAAGGGTTGGCTGTTACTGCCTGCTGGTGCTTCTCACTCTAC
CCTCCCCGCGTACCTGCCCGGGCGGCCGCTCTAGAACTA

Sequence 3637

AGGTACGCGGGGTCCTCACTCACCCCACCCTCCCCAATTCCAGCCCTTTGCCCTCTCGGT
CAGGGTTGGCCAGGCCCAGTCACAGGGGCAGTGTCACCCTGGAAAATACAGTGCCCTGCC
TTCTTAGGGGCATCAAGCCCTGAACGGTTGAGAGCGTGGAGCCCTCCAGGCCTTTGCTCT
CCCCTCTAGGCACACGCGCACTTCCACCTCTGCCCCATCCCAACTGCACCAGCACTGCCT
CCCCCAGGGATCCTCTCACATCCCACACTGGTCTCTGCACCACCCCTNTGGTTCACACCG
CACCCTGCACTCACCCACAGCAGCTCCATCCACTGGGAAAACTGGGGTTTGCATCACTCC
ACTGCACAAGTGTTAGTGGGACCTGGGGGCAAGTCCCTTGACTTCTCTGAGCCTCAGTTT
CCTTATGTGAAAGTTGCTGGAACCAAAATGGAGTCAC

Sequence 3638

CCGGGCATGGCACCATGTTCAGGAAACCAAGGACGATATTGCTCTACTGTTGGAAACAGA
GTAATCAAATTTTCTGTGCTAGCCTTAATTCCTGCCCTCTTTAAGAGGAGCTTAATAAAT
GTAAATATGCAGAATGTTTACTTTTGGATTGTCCCATGGTGTCCCTGGAATGCTCCGAGT
GCACAAGCTTACCGCAAGGCCGACCACACGTTCTCGGGAGTTCCTGGACAGACCGTTCTT
CACAACGACCACGCTCAGGTGTAACTTCACCTGGGTTCAAGGAGACCGTGTTGGGTGCCA

Table 1

AAGATGTAGGGGAACCTGCCTGATACACCACCCGCAGGCTCTCCCCTTCCCGGTGGAGAC
GAGGGAATGAGAAAAGAAATAAAGACAAAGACACAAAGTTTAAGAGTTAACAAAAGTGGG
TCC

Sequence 3639

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCATAATTTAATAACATCGTCCTT
CCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTAGTAAACAGAATTCTAGCAGGTG
GAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTCCTGGAGGTCTGGGTGTTGCAGC
CTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGGCCTGTGTGCCTGTCCCGGGCTT
TACGCTGCTTTCCCTACCCGGCTCAACCACCCCGCGTACCT

Sequence 3640

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGTAAAGAATC
AGTGACCTTTTACCTTAACATCAAAATGTAGTTTAACCAGTTAATGTATTTTTCAGTTTT
CTTTCCTTATGTCATCTGTGAACATCTTGAGCTGTGAGCTATTAAGTGCATGTTTCCCTC
AAGGCCCTNTGGTCCATTCTGGACTAATGTTGAAAGATGGGATGGATTGGCATGGAACTG
TTGGGGTGATCAGACCCAACACCGGGCTGTGGGGGCTAAGAAGTCCAGTGGAGTCAAAGG
AATGAGAAAAGACAAGTTAAGAATGCATAAGGTGGGTCCAGGGGGCCAACGCTAGTATGG
AGGCTGCAATAGACCTGAGCTCTGGAAGCCCACACTATTAGTGATCAAACAAAGCACCAG
GTGGTGAAGGGATGTGGG

Sequence 3641

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATACCAGCATCACCACAAACATGAATA
ATGAATTGAGCTGTGACATTACTAGGCAATAGGAATGTTTCAGCTCCATTATAATCTTGT
GGGATCACCGTTGTATATGCAGTCCTGTGTTGACTGAAACGTTATGTGACTGCAGTTGGG
TAATGGTTTCTTAGCCTTATGTCAGCTCTATGTATCCAATTAGTTCAGTCAGTTGCCTCC
CCTCTTCAGTGGAAGATTTTGTTTTTAGTTCAGTTTAGGAAGGAAGATTTCCTTTCAGGA
GGCCAGGTGTGGTGGCTCACACCTGTAATCAATCACAGCACTTTGGGAGGCTGAGGCAGG
AAGACTGCTTGAGCCCAGGAGTTTGAGATCAGCCTGGGCAACATAGCAAGATCCCATTTC
TACCAAANNAAANAAACAAANAANNAAGTACCT

Sequence 3642

CGACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACTCAGAGTGAGG
ATTTTCTGCAACCTACGTTTGTCCCTCCAGCATCTGCTCTGGCTCCATGGCGGACCCTGC
AAGTCACAGTCCCCGGATACCAGTCCGCGCCCAAGCCGTTCGTTCTTAAGAGCCCTGCAC
CGCGCCACCAGCTCCCAGCACAAACAGCTCCGGCCGCCCGGGCAGGTACGCGGGCACCCC
CAAGTAGTGCAACAACCGGGGCTGCTGCTTTGACTCCAGGATCCCTGGAGTGCCTTGGTG
TTTCAAGCCCCTGCAGGAAGCAGAATGCACCTTCTGAGGCACCTCCAGCTGCCCC

Sequence 3643

AGGGGAACAGTGTGAAANCCTGGTTAAAGGGTTTGGGTGGAGACCTTTGTGAGAGTAGAA
TANGATTGGGATTATAGGTNTCAAAGCCAGTGAGCATCTCACCCCTCCGTTCCCTTCTCT
ACGCCACCCTGTCCCTCTCCGAACCCTGCCTGGAGACACTGGATCATCATTTCTGGGACC
ATGTCATTCTACTTTTNCTTNTGTTCCTTCCAGTCTGCCATGCACGGACTGATCATGGGC
GGCCTGGAAGTGATCTCAATCANAGACAACACCCCAATCCCACACAACGGCTGCCGCCCC
AGGAAGGCTCGGANGCTGTGATGGGAAGGAGGCC

Sequence 3644

CCGGGCAGGTACGATTTATATTCAGCTGTATGCTGGGCAGGTCCAACTTGGCATTTCTTG
GCTGTATCTCTGAAGGAAAGTCATCTTAATCTCTATGAGCCTCCATTTCCTCAGCTGTAA
AATGGGAAGATCTTCCTCACACTGCTGTGAGGAAGCGGATTTTCTGACGCATATGAAGAG
TGAGAACTGTCTACATCTAAGTCTTCTTTGAGAACAATACCAGCTGAGCGGCTATTTACA
TTCCAGCTTCTTTTGAGAATCTCTGAAGATGATTAAGTCATTGTCAGCTGGCCCAGAACC
ATATCCTGCTCCACAAGCCTCGTCCTTGGCAAGAAGTTGCACCTGCC

Sequence 3645

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTACT
GAGAAATTCATCAGCTTTTTCCTACCAAAGGCAGACATCTAACCGTTCCGAACCCTCAGG
GGAGATCAACATAGACAGCAGTGGTGAAACAGTTGGATCTGGAGAAAGATGTGTCATGGC
AATGCTGAAGAAGGAGGGATCAGGGGATNAAGAAGACCAACCGTTAGGAAGTNTTGNACT
GCAGGTATTAGTGAGTATTTTGAAACACTGTGATGTCTCAGGCATGAAGGAAGACCTGTG

Sequence 3646

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTTTCTAACAAGAAGC
CTTCAGGGGAAATAATGGATCCTAGTTATGTCAAAGAAAACAATGAGACAAAATGGCAAC

Table 1

TTCACAGTCTTCAAGTAAATAAGAATCCCTGATCCCGCGTACGCGGGGCTCTTACCGCCA
TCTTGGCTCCTTGTGGGAGGGCCCTGCTGGGAACGGGACTTNTAAAAGGAAACTATGTCT
GGAAGGCTGTGGTCCAAGGCCATTTTTGCTGGCTATAAGCGGGGTCCTCCGGAACCAAAG
GGAGCGGCACAGCTCTTNTTAAAATTGAAG

Sequence 3647

CCGCGGTGGCGGCCGAGGTACTTTTTGGCAGAAAGTTGACCCAAGAGTTTACTGAAGTCA
CTGGTGAAAACTCCATCAGCATGCCTGGCATTTCTGGATACATCATAATAGGGTGTGTCA
TTTTCAGCTAATGCATTTTGCAACATGTCAATGTCTTCTTTTAATGAAACTTGATCAGGT
TCATTTGCTCCCTCAAAGGGTATTCTTGTCACCCAACCTGAGAGCAGAAGGTGCCCTGTA
AAGAGGCCATGCCCGAAGTCTGTGAGAAGAGCACACTGAGAAGAGTCAGGAGCACAAGGA
GCTGGGCCCTTTATTTCTTGGTGTCCANTTTTNCTGTTGCCTCTCGCCCAGTTCGTGCTC
CCCCGGAAGCTTGACTGTTTCTGGTTTTG

Sequence 3648

CCGGGCAGGTACCCACGGCGAGGACGAGGATGAGAGCTTGTGCCGAGATGTGCCCCAGAG
CCTCCCCCACTTCCTTGTGGCCCACTGTGGAGACCCGGCCTCCTGGATCTACTCAGACCA
AAAATGTGATGGCACTAACAACTGCGGGGACTGTTCAGATGAAACTGAGCCCAGTAACTG
TGTGCCCACCCTGCGGTCCTGGGTGGTGGCCGCTGTC

Sequence 3649

ATAATTTAATAACATCGTCCTTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTA
GTAAACAGAATTCTAGCAGGTGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTC
CTGGAGGTCTGGGTGTTGCAGCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGG
CCTGTGCGCCTGTCCCGGGCTTTAGGCTGCTTTCCCTACCCGGCTCCCCGCGTACCTGCC
CG

Sequence 3650

CCGGGCAGGTACGTTGAAATATTAGGGGCAGCTTCCCCCAATATCTGGCGCCCAACGTGG
TTTTCTTTTTCCTAAGTGCATGTGGGAACCCGATTCCCTTTGGTAGGTGCGGAGAAATGT
TCATCGGTCCAGTCCACAGAAATGCTTGTTCGGCTCCCCGACGATTGGTGAGTTGTCTGT
GTATTGTCCGGGGTAACTATGGGTCACGCAGAGTCTAAACATTATGCTTATCTCTGCTAT
ATTAAATTCCTGTTAAAATGGGGGAGTTCGGGTTCCCATGGAAAATATGGTCACCCTATT
CAGGGCAGTGGAAGAACACTGTCCTTGGTTTCCTGAAAAGGGAACGTTAGATGTGG

Sequence 3651

CAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTCCTCTCGCTCG
GAATACAGCCACTGAAGGAGGTAAAAGATATCTACAAGTAGAACTTTGATATTATTACTT
CTTCTACTGAACTTAAACCAATTACTGTTTGCTTTGGTGTCTGTTGTGATTTCTCTTATT
TAGTTGGATTTTGTAGTTACTTTAAAAGTTAACGAAATTTCACATTTCATCAAGTCCAGA
GGCCAGAGACACCCAAATATGCACAGACAGGAATCAGCTGCAATTGTCCAAGCCAGAGCT
GATTAGGCCTCAACTGGAATAGTCCCACCATGTAATAAATCTTCCTGAGTATTGTGTATA
AGGTCAAATATTTCCAGCT

Sequence 3652

GCNAATTGGAGCCTCCCCGCGGTGGCGGCCGAGGTACTTTTTGGCAGAAAGTTGACCCAA
GAGTTTACTGAAGTCACTGGTGAAAACTCCATCAGCATGCCTGGCATTTCTGGATACATC
ATAATAGGGTGTGTCATTTTCAGCTAATGCATTTTGCAACATGTCAATGTCTTCTTTTAA
TGAAACTTGATCAGGTTCATTTGCTCCCTCAAAGGGTATTCTGTCACCCAACCTGAGAGC
AGAAGGTGCCCTGTAAAGAGGCCATGCCGAAGTCTGTGAGAAGAGCACACTGAGAAGAGT
CAGGAGCACAAGGAGCTGGGCCTTATTTCTGGTGTCCATTTCTGTGCCTCTCGCCCAGTC
GTGCTCCCCCGGAGCTGACTGTTCT

Sequence 3653

AGGTACTCTGAAGGTGGATAGCAATGGTGTGATCACAGTAAAGCCTGACTTCACGGGCCT
CAAAGGACCCTACAGGATTGAGACGGAGGGGGAGAAGCAGGAGCTGTGGAAATATACGAT
CGACAATGTTTCCCCCCACGCACAGCCGGAGGAGGAGGAGCGGGAACGGCGAGTGTTCAA
GGATCTTTATGGCCGGCACAAGGAGTATCTCAGCAGCCTCGTAGGCACCGACTTTGAGAT
GACTGTCCCAGGTGCCCCCCGGCTCTTTGTAAATGGAGAGGTCGTTTCAGCCCAAGGCTA
TGAGTATGACAATCTCTACGTCCACTTCTTTGTAGAATTGCCAACTGCTCACTGGT

Sequence 3654

ATAATTTAATAACATCGTCCTTCCATTTGGCCGCGACTGCTCTGGAAAATTGGTTCAGTA
GTAAACAGAATTCTAGCAGGTGGAACAAGAACAGGCGAGGCATCCTGGGCCTGGTCTCTC
CTGGAGGTCTGGGTGTTGCAGCCTTTCAGGACTGCGGCTGCTGTGGCCTACACACCTGGG

Table 1

CCTGTGTGCCTGTCCCGGGCTTTAGGCTGCTTTCCCTCCCCGCGTACCT
Sequence 3655
CGCCCGGGCAGGTACGCGGGGAGGGTAGAGTGAGAAGCACCAGCAGGCAGTAACAGCCAA
CCCTTAGCCATTGCTAAGGGCAGAGAACTGGTGGAGCCTTTCTCTTACTCCCAGGACTTC
AGCACCTAAGACAGCTCCAAAACAAACCAGAACAGTCAGCTCCGGGGGAGCACGACTGGG
CGAGAGGCACAGAAATGGACACCAGAAATAAGGCCCAGCTCCTTGTGCTCCTGACTCTTC
TCAGTGTGCTCTTCTCACAGACTTCGGCATGGCCTCTTTACAGGGCACCTTCTGCTCTCA
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AAGACATTGACATGTTGGCAAAATGCATTAGCTGAAAATGACACACCCTATTATGATGTA
TCCAGAAAATGCCAGGCATGCTGATGGAGTTTCACCAAGTGACTTCAGTAAACTCTTGGG
TCAACTTTCTGCCAAAAAGTACCCTTCGGCCGNTCTANAACTN
Sequence 3656
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTGGCAGAAAGTTGACCCAA
GAGTTTACTGAAGTCACTGGTGAAAACTCCATCAGCATGCCTGGCATTTCTGGATACATC
ATAATAGGGTGTGTCATTTTCAGCTAATGCATTTTGCAACATGTCAATGTCTTCTTTTAA
TGAAACTTGATCAGGTTCATTTGCTCCCTCAAAGGGTATTCTGTCACCCAACCTGAGAGC
AGAAGGTGCCCTGTAAAGAGGCCATGCCGAAGTCTGTGAGAAGAGCACACTGAGAAGAGT
CAGGAGCACAAGGAGCTGGGCCTTATTTCTGGTGTCCATTTCTGTGCCTCTCGCCCAGTC
GTGCTCCCCCGGAGCTGACTGTTCTGGTTTGTTTTGGAGCTGTCTTANGTGCTGAAGTCC
TGGGAGTAAGAGAAAGGCTCCACCAGTTCTCTGCCCT
Sequence 3657
CCGCGGTGGCGGCCGCTTTGGTGTTGTCTCCACAGCGGAGGCCGTCGCAGAACCCAGCTC
CCACAGCTACGATGTTCTTAAGCGCACCACAGAGTTCAACAGTGTCTGCATCATCAACCA
CGGTAATTCGAAAATTTGGAGTCTGCAGAAGTTCTTTGAAGAGAAGGCCGTTCTCCATTA
CTTTGCTGCCGATGGTGGTCTCACAGAACTTCTCTGCAGCCACCTCATTGGCAATGTTGG
CTCCCATCAGCACACTGATGTCAATACCCATCTTCTCACGGATGATGTCAGAAATGAGCT
TCAGCCCCTCGGGGCCCTCGTCTATGCCCTTGATGAGGGTGATTCCCAGCGCTTTCTTGG
GCACTCTCCCAGTGATCTCATCACAGATTCTGTGAATGAACTGGTGGGGAATGACAAACA
CCAGCAGGTCTGCATCCTGCACAAGCCTCGCTAAGATTTGACATGGCAACCACATTTTCT
GGCAGCTTGTGTCAGGAAGATATTTTACATTTTCATGGGCCATT
Sequence 3658
TAGGCGAATGGACTCCCGCGGTGGCGGCCGAGGTACTTTTGGCAGAAAGNTGACCCAAGA
GTTTACTGAAGTCACTGGTGAAAACTCCATCAGCATGCCTGGCATTTCTGGATACATCAT
AATAGGGTGTGTCATTTTCAGCTAATGCATTTTGCAACATGTCAATGTCTTCTTTTAATG
AAACTTGATCAGGTTCATTTGCTCCCTCAAAGGGTATTCTGTCACCCAACCTGAGAGCAG
AAGGTGCCCCGTAAAGAGGCCATGCCGAAGTCTGTGAGAAGAGCACACTGAGAAGAAGTC
AGGAGCACAAGGAGCTGGGCCTTATTTCTGGTGTCCATTTCTGTGCCTCTCGCCCAGTCG
TGCTCCCCCGGAGCTGACTGTTCTGGTTTGTTTTGGAGCTGTCTTTATGTGCTAAAANTC
CTTGGGANTAAGAAGAANNGCCCCAACCAGTTCTNTTGCCCTTTAAN
Sequence 3659
CGAGGTACATGAAGTTCACATTGTCAAAGATTATCACTCCTTCATGGGGCCAGGCTGGTG
GTGGGCGTTTCTGATATTCCCAAGGTGCTTCTTTTTCAAGGTCTGTGTATTCAATGACCC
TTTCTACTGAGATCATCATATTCTCAACTTCAGCACTTTGTCGAACACACCACTGAAACA
TCCCCATGAGCGTGAGGGCATAGGACAGTGCCAAACCAACCTGCCCGGCATCCAGAGTTT
TTGCCAGAATCAGGGACCCAAAGGCAACGATGATGACAAACATGGCACAGATGGCATCCA
GACGGACGGCGAACCAGCGGGACGTTGTCAAAAACAAGAACCAAGCCTCTGAATGTAAAT
CCTGGTGTGCATCAAACAGTTCCTGACACCTCTCTTCTGCTTTGTATGCCCGGATGGTCC
AGAGCCCCTGGAGAGAAGATGACAAGTGGGAAAACACTGGACTCCGAGTTGTAGATTCCA
GGCGCTTCACATCTCTTTGACGTTTCCAAAAAATATCGCCCGAAGAAAAATGAAAATGAT
TCCAAGGGGAACCAAGGGTATTGCGATCCAAGGAATCACNGGCCCAGCCCAGAGACCACA
CCAACCACTTGTAGCAATGTCTGGATGAAATCT
Sequence 3660
TAATACGACTCACTATAGGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCGAGGTACGC
GGGGGCACTCGGCCTGAGAAACTCGGCAAGCGCGCAGTGTCGACTCCCCGGTCTATGCCA
GGCGCATCTCAGCTAATCCAAAAGTAAATGAGAAACTTAGAAAAGGATTGCCAATTCCAA
ATCAACATATTTAGAGAAAATTGGAAAAGGAGAAGCTTACTACAGCTTTATTTGAGGACT
TTTTAAAGAACGCTGGGTTCTATCTGTGAGCTGCAAATCTTGGAGCAAAAACCAGAGACA

Table 1

TTGCCAGAGCAAACAAGAACAGAAATACAAATGGAGAACTGGTCAAAAGACATAACCCAC
AGTTATCTTGAACAAGAAACTACGGGGATAAATAAAAGTACCTGCCCG
Sequence 3661
CCGGGCAGGTACGCGGGGATGCTGACCACTCACCATCATCTCAAGGCAGCAGTGAGGCCC
CAGCGTCTCAGCCACCCCCCCAGGTCAGAGGTTCTGTCATGCCCTCTGTGATTAGAGCAC
ATGCCATCATTACCTTAGGTAAGCTGTGCTTACAGCACGAGGATCTGGCAAAGAAGAGCA
TCCCAGCCCTGGTGCGAGAGCTCGAGGTGTGTGAGGACGTGGCTGTCCGCAACAACGTCA
TCATTGTAATGTGCGATCTCTGCATTCGCTACACCATCATGGTGGACAAGTATATTCCCA
ACATCTCCATGTGTCTGAAGGATTCCGACCCATTCATCCGGAAGCAGACACTCATCTTGC
TTACCAATCTCTTGCAGGAGGAATTTGTGAAATGGAAGGGCTCCCTGTTCTTCCGATTTG
TCAGCACTCTGATCGATTCACACCCAGACATTGCCAGCTTCGGGGAAGTTTTGCCTGGCT
CACCTGTTACTGAAGAAGAACCCTGTCATGTTCTT
Sequence 3662
ACTATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGGAAAGCA
GCCTAAAGCCCGGGACAGGCACACAGGCCCAGGTGTGTAGGCCACAGCAGCCGCAGTCCT
GAAAGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGCCCAGGATGCCTCGCCTGTTCT
TGTTCCACCTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCA
AATGGAAGGACGATGTTATTAAATTAT

Sequence 3663
CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCAAACTGACACCTCAGGGACAA

AGAGATCTGGACAGAATCGCCGGACAGGTGGCAGCTGCCAACAAGAAGCATTAGAACAAA

CCATGCTGGGTTAATAAATTGCCTCATTCGTAAGAAAAAAAAAAAAAAAAAAANGAAAA

AAAAGTNCTTTTTTTTTTTTTTTTTTTTTTTTTNGGGAAATCTTGCACAAATGGCATTT

TATTAAAGAAAATNTAATTTACAAAGCTTTGTAAATTTTAAGAAAAACATTCATAGATCA

TAAACAAAAATTTCAATATGCAATATTCAAATTTACAAGAAAATAAGCNCAAACTTTTAG

ACAGGGCAGTTATTGCTGCACTCCTTTAATTCCTTATCCAGAG

Sequence 3664
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTTTAG

AAAGTGAAATGCTGTGGACATTTAAGGTGGAGCCACTGTGAGAGTCTAGGGGGATAGATG

GTAGTCGTCTCGGAATGAAACGAATACACCCCTCTCAGAGCCCTTTCCAAGGATCCCCTC

CTTCTTTCAGCTCCTTCCCTCCACCTCAATACACACTCCTGTCCCAGGAACCTAACCTCA

TCTAGAAATACCAGGGCCAGCATGCCTTACACCTAGAGGTTTGGTTGGCTTCAGAGAAAC

TTCTGGAGGCTAAAAGCAGCCAAGAAGAATCAGCCACTACATGCTGGGCCTGGATGAACA

GAAGCAGTGAGCTGTGATGGGGGCTGGGGCTGGGGCCCAGGAGGAGCAGGCAGGGAGAGT
TTGTATGCACCGTGATTAAATATTATAACAAAAATATTCGATCATGTGTTAGGCACTTTA
CAGTTCCCAAAGCACTTTCCCATCCATG
Sequence 3665
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCCG
TTACTCCGAGGAGATACCAGTCGGTAGAGGAGAAGTCGAGGTTAGAGGGAACTGGGAGGC
ACTTTGCTGTCTGCAATCGAAGTTGAGAGGCCCAGTATTTAGGCGACAGTGAATTTATTA
CTCTGAAGAGGGTTCTGCACATATTTCCAAATTATATTGGTGGTCATCAGAAGTAGGTGA
TAGGAAGAAATACTTCTCAAGGGTGCAAAAATGCAGAGTAATAAAACTTTTAACTTGGAG
AAGCAAAACCATACTCCAAGAAAGCATCATCAACATCACCACCAGCAGCAGCACCACCAG

Table 1

CAGCAACAGCAGCAGCCGCCACCACCGCCAATACCTGCAAAATGGGCAACAGGCCAGCAG
CCAAAATGAAGGCTTGACTTATTGACCTGAAGAATTTTAGAAAACCAGGAGAGAAGACCT
T

Sequence 3666

CCGCGGTGGCGGCCGCCCGGGCAGGTACTAGTCAGTATGCTGTAGTATTAATCAGTAGGT
CAAGTTCAGTGAAGTAAAGGAGAATTGAATTCTTGAAGTTCACATTTAGGCAAAAATTTG
GCGTTTTAGGAGGTGAGTATAAGACATGATCTTTATAGAAAACGCTGATGATAAAAACAG
CGCTCTCTGTTAGGTGCCTTTATGCTTGACTCCATTGTCATCTTTTCTTAAGAAACTAAG
CTCAGGACTGGGTGCAATGGCTCATGTCTGTAATCCCAGCACTTTGGGAGGCTGAGGCTA
TAGGATCAGTTGAGCTCAGGAGTTCAAGATCAGCCTGGGCAACATAGCTAGGCCTCGTCT
TCTACTAAAAAACGAACCAACNAAAAAACAAAAAAAAACCCCCAAAAAAACCC

Sequence 3667

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTTTTATTTTACAGA
TGAAGAACTGTGGATTTTGTTTCTAAGAAAATTTCCAGGCTCACAGAACTAAGCCTAATT
TCTTTTTATTTTTTAGCAAATACAGTTTTTATAAGAATTTGAATTCTATGAAAATAAATG
GATTACTCCTAAATCTCTGATGCCTCAGTGAACACTTTTTCCTTATTAACAAAATTCTCA
CTTTTGGCTTTGGATTGGCTTTGCAGGAGTGCAGATTGATCATAGCTTTTTTCATGTCCT
AAGAGTTGTCAGAGTTTTCTCTTGTAGCATTTTTTTCTTTACTTTTTTTTTTTTACTATCT
TTAAATATATGACTGTAAGAGTATGATAAATATGCTGTTTTCTAATCTCTGCTGGTGGCA
CATAAACTAATATATTTTGAGGTAATTTTGAAATGATATTAATAATGGCATTAGATTTTC
TTTGGATTTTTTGAAAAAAAT

Sequence 3668

TAGGGCGAATTGGTNCTCCCCGCGGTGGCGGCCGCCCGGGCAAGGTACTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTAGAGATGGGGTCTTGCTAGCTTGCTCGGGCTGAACTAAAGA
TATCCTCCTGCCTCAGCCTCCCAGGTAGTTGGAACTATAGTAGGAGTATNTACCCTGCCC
TGCTAGAACTTCAAGTTTTGATGGGCAAATCCACCCCAGAGGACAGGACAAATGCCAGTA
TTNTGGTTAATAGCCCCANATGAGCCAGCTTCCCACCCATNTNCCGTAAGGGGGCAGACA
CATAAGGGAAGCCACCTTGGACCTTTNAGGTCAACCCATNTACCAGGGGGNATACTACCA
GGAGNGGAGGCTTTGGGATTACATGGACAATGGGAAAACAAATGGGCCCAGGCTTGGAGT
CCCANCTTAAAATTCCCTTGGATCCTTACCAAAAATT

Sequence 3669

AATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCNGGCCNGGNAC
CTCANGCCCTGAGGTTCCCTCTNTTCTGGGGAAAAGCCACACGACTGATGGGCCACATAA
GCTCTGGTCTTTTTCTGCCNCGANTNCCNGGACCCTNTGCTAANCCGGTTCCTATTGNAC
AGATGANTGCATAATACCACANGAATTCAAATGGGG

Sequence 3670

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAGTCACACCCAG
CCAGTCAATAACTGAGAAATCAAAATAAAATAATAATTTCAAAGAATTACATAAATACAG
GGCCTTTTGAGATTTTTGGCAATTGTAAACAAAAACGAATGGTTTTTACAATTCAGTGTA
ATTCTACGAATATTTATTTGGCACCCATGTTAGGCACTGAGGCTACACAGCAGTGAAATA
GGCCTAGTTGTTCTCAACTAGAGAACATAGTTGGTTAATGTAGCTGCACTGAATTGTAGC
TGTTTAGAAGATAATATACCCTGAGGCTTTTTAAAGTATACTATTACTATAAGGAAGTAA
AATTATTTTATACTTATAAATTTTGTTTTGGATTATTCAACTGAATTTGGGAGTGTTCAG
AATTTTATGGCGGTTGAGACAAGGAAGAGGTATAATGCTATTTTTTTTCCTTTTCTTTTT
TTTTG

Sequence 3671

AGGTACAAGTCATAAACACAGTGTGCAGCAGTGACGATCCACAGGGGCGTGATGACAGAG
CCCCCGCACAGGTGGTAGCCCTGGAACTGAAGGCTGGCCTGCCAGGGCCACTGCGAGAGC
AAGGACATGTTTCCACCCACGATGCGTGAGCTGTAGCCCCTTCTATGACCACAGGCTGTG
CACTGCAAGGTAACCACGTGGCCAGAGGCACATCCCTCCCTCACATATACTGAGTGGTGT
AATGCAGTCACCTTGTCATCTGGCAAGAGGTGATCGATGGACACAAACTCCTCCCGGAAC
TGCCCCTCCAGCGAGCTCACTCTGAGGTTATCTGAACTCACATAGCTTGGGAAACCCAGC
TGGGCACATGCAACATTTGCCGTAGTGACCCT

Sequence 3672

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACTAGTATTT
AACCTAGACGTGAGGAAGGAGTAGGAAATTTTCTGGTGAATACAGAAGAGCAAAGAACAG
CAGGTCAGCAGGAATGACTAATGTTTTTCTATGCATGTTTAATGGAATATTCGTGTAGGA

Table 1

549/863

TATTTTGAGTAGGTAATTGGATAATCAGCATTTGTAACTTGCATCCTAGTAGTCTGACTC
TCACTAATAAGACTTGTCAAAGTTCCAAGAATCTGAAAGTGGATGATAAATGTCCATGTG
TATCACCATCCATGACCGAAAGTCAGCATCCACAGAACACAGAATTGGGACAGATGAACT
TAATAGATAAAGATGAATATCGGAGTTGTTCCTCTTAGGGAATGATACTCTCCATGAGCT
GTGTGAGTCACAGCTGCCAGAAAAGAAAGAGCAAGGGAGCGTATGAAGGCAGCACAG
Sequence 3673
AGGTACTTTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTAAAANNANNNNNNNNNNNN
NTNNCTNTCTTTACTTGAAATTTTATTTAATTCCAGTTATTTAGCACATANTTTAGCATT
AAGCCCTCAAACGATACANCAATATGTTACATTCTCTTGNNAAAACAGTTGTTGTANACT
GTNAANNNNNNNNAAANGNAACTCCGACTTGTGCCTAATANGANTTGACCTTTAANAGGT
TTNTTTTGCTGTGNATGGGGNGGCTTNGCTTGAACTTCCATTCTGTGCCTTGTAGCTGGA
GANGCTGGGAGNATGGATGGTCCTGATGCCCTTGGCACCTTGATTTCANTGAGACCGGAG
GAGGCANNNANAAGGAGGGGGAGGGAGGGAA
Sequence 3674
GGCCGAANTTGGGAAGCTTCCCACCCGCGGGTGGGCCGGGCCCCGCCCCGGGGCCAGGGT
ACCACTTTGGGGGNNAAAAAAAGGGGGGGGGGGGNNNAAAAAANCCCCTTAAAAAATTNT
TTTCATTTTANNAAATGGGGGATTTAACCCNNCCCNTGGTTTANCTTTTAAAAATTTAAA
AAAAGGGGGGTTTTTTNNCCCCCCCCCNNAAANNGGGGGGGGGTTTTTTTTTTTCCCCNA
AAAAAGGGANTTTTTGCCCAAATTCCTTTNGGGAAAAAATTTGGNAAAAAAAAGGGGGNC
CCNTGGCNCCCCCCCCTTTTTNNAAAAANCCCCNNANNNNNNNNNNNNNNTTTTTTTTTT
TT
Sequence 3675
AGGTACGGATTGAGAAGTTGCCCTTCAGTATGTCGCTGTCATAGGTGTAATCGATGGCAG
GGGAGATGTGCTGCGAGAAGATCTGGGCCATCATGGTGCGGTAGGCCTTCCCATCCACGT
TGGTCAGCGTGTGGTGCAGCACTTCATGCAGCTCTGACTCCTCCATCTGGGGTGGGGGCA
GCAGCTCACTCTTGAGCAGTTCTGTGGCTGTGGGCCGTTTTGCTGGATCGTGGTTCAACA
GCCAGGAGATGACTGATTTCTGCTTTGCATGCTCTCCATCGTCAAAGTCTTCTGGAAACT
TAGGCGAAGTGGGCTAAAAAAATATATTCAAATCAGCAAGGTTTT
Sequence 3676
GNGGCCGCCCGGGCAGGNACACAAACTCCTACTTCCAGAAGAGAATNGTTTANGTTNTTC
TGGCCTAAATTTTATGCAATGAATAAAAATTTAAATACTCTTCATCCATGAT
Sequence 3677
CCGGGCAGGTACATCGAGCCCTCAGGGTCCCTGACTGGTTCTCCAGCCGCCCCATAGGCT
ATGAGCATCCCCGTTCCCTACACAAAGGACCACTGGGATTTATTAAAGGTTATGCCTTGC
AATGCAGTACTGTTTTCATATGTGTGATATTATACTACTTTCTCCAATTTTCTCTTCACA
TCCTACCCATTCTTTTTGCTCAATCTTTTAAGTCTTTTAATGAAATAGTTATACAAAAAA
GTGTATAGAGTCAGGTGCGGTGGCTCACACCTGTAATCTCAGCACTTTGGGAGGCCAAGG
TGGGCGGATTGCTTGAGCCCAGGAGTTTAAGACCCAGCCTGGGCAATGTGGN
Sequence 3678
AGGTACATTTGAAACATTTTACCATGGCAGTAAGTTNGACTGGGAGCAACTGTTCAACAC
AACTCTGTAGGAATACACCGATTTTTTATAACTGTGCTGCCTAATATGGTAGCCACATGT
GGTTTCTGAGCACTTGAAATGTAGGTAGTCCAAACTGAGATATGCTAGAAACATAAAATA
CACACCAGACTTCAAAGGCTTAGTATGAAAAAAATGTATATGAAAAAATTTCATATCGAT
GATCTTGAATATAGAGGCTGGAAAAAATTATTTCATATTGATTATATACTAAAAGATAAC
ATTTCAGATACACTGGGTTGAGTAAACTATATTATTAAGTTTAATTTCTCCT
Sequence 3679
AGGTACAACTTTTGATTCCCCCAAAACTTAACTGCTAATAGCCTACTGTTGACTGGTAAC
CTTATTGATAACATAAATAATTGATTAATCCCATACTTAAACTAGTATCTACATGTATTC
TATGCATTCATGACATACCTAACCTTTTCTTGATTTTTTTTTTTATGTTTCTAGGCTACA
TGGTTCATCTGCTAGTTTTTTCATATTGTCACAATTCCCAAAAAAATTTTCCAATATGTT
TATTGAAAAAAGCCCTACATATAAGTGGACCCACACAGTTCAAACTTTTGTTGTTCGAGG
GTCAACTGAAATGAAAATTAAATTAATGAATTTTTGGAA
Sequence 3680
ACCGCGGNGGCGGCCGAGGNACAGATTTGTGANNGGNATATAAAACCCGAGCGCGGCNGG
ANANANGGAGAANGNCGGGCCCAGNNGGAACCGNAGAGAGCAGANACCACAACAGCNNNG
NNGGGAGGGNNAG
Sequence 3681

Table 1

CCGGGCAGGTACTGATATAATCTAACAAATGAAGGTGCACCTTTACTTCCTGGAACATAG
ACAGCCACCTAAGATACATAGACATAAATCATCACTTAATTTTTTGAAGAATAAAAACTG
AGATGGACATGTTTTTACAATCACAAAAAACTAGGAAAAGGTTTAAACACATAATATTAC
ACATAAACAAAAACAGCAATTACCTTGTATGGTTGGGGTCCAGGTGATAATACAAAGTCA
TTAATTTTTTGCAAATGCAATTTATTTGCAATTGTGTCTAAAAAAAGAGTAAATTAAATC
AGATTGATGAGAGAACCTAAAAGGAACATGTTAAACTCTGAATAC

Sequence 3682

CCGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTTGANACAGAGTCTTTCTCTGNCTCCCA
GGCTGGATGTGCGGNGGTGCANTCTCAGTTCACTGCTCACTGCAACCTCCGCCTCCTGGG
TTCANACTGTTCTCCTGCCTCAGCCTCCTGAGTAGTTGGGGTTGCAGGTGCATGCCACCA
TGCCTGGCTAAGTTTTGTATTTTTAGCANAGACAGGGTTTCACCATGTTGGCCGGGCTGG
CCTCGAGCTCCTGACCTTGGGTGATCCACCCTCCTAGGTCTCTCAAAGNGCTGGAATTAC
CGGGGTGAGCCACTGCGCCCGGCCCTTAGTAGCATCTTTTAATGGAGGTAGAGTTGAGAT
TTCAGTGACTAACAACTAAAGGGTATTAAAGGTAGGGGGTTTATATGATACATTTNCATT
TTTAGAAAACTNATCTNAGCTTTCAATGTGAAGAACANATTGAAATGGGAANGGG

Sequence 3683

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTCTGGCATCAG
CGTTGCGGCTCGAGGCAAAGCTGGTCCTGTGCCTGCTGTCCATTGCCGCTAAGGCCTGCT
GCTGCCATTCAGGCGTGTCTCCCTCTCTCTCTCTCTTTCATGCCGCTCTCTCCACCCCAT
CTTGGGACGGCCAGCTCTAAGAATTCCTGCTACGACACTGAATTCAACCAGGAGGTGATG
CCACACTCAATCAGAAACTATGCTACTGCTGAAGAGGTATATTGAGCCCTGCCTGGTTAA
CCTCCAGTGAGGTTATTAGAGAATTGGGAGAGGCTCAAATCAGCATCCTGCACCTGGTTA
TCAAACCATTGTGAAGTCTTGATTCCTGGATGGCCAGAAAACTTGTCATTGGTCAAGAGC
AACATTAAGATCTGCCTGTTACTCATACTGATGCTTCCTGCCCAGCAAGTTCATCAGAGG
GCGAGGATGAATTAC

Sequence 3684

GGCCGAGGNACGCTTTNCACGCAGNCNTTAAGCCTAGGCTTTTANAGCNAAGNCAAGTTG
TTTGGACAGAANGGNTNCAGGGGGCGGCCCTGGCTCTTGGGGCTTCCGAGGCGATCGGGC
AGTGTCAGTCTTCAGCTGTTAAGCTGAGAAGATCTGGGAAGGAGTCAGTCAGAGAGCCTT
GGGCCAGAGTTCCAGGAGCTCTGGGAGTGGCTGTCAGAAATGGCCAATTTCTTTCAAATG
CTGTATACTGGAAAAATCCAAAGGACTCATCAGATGAACACATTTCAAAGAGCCGCTACC
AATTTTTTTTCTTAAGCAAAGCATCAAGCCTCTGATTTGCCGCTGATAAATTCTCTAAAT
AAGCACTTGGAACAGAAAGGGAGCTCTCCCAACTACCCGGAATGCAGGCGGGCCCGGGAC
TATGGTGACTACCACCCTCTAAAGGGGGGGGNT

Sequence 3685

CTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTATAAATGAA
GTTGTTTTCTGGCCGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTCGGGAGGCCAA
GGTGGAGGGATCACTTGAGTCCAGGAGTTTGAGACCAGCCTGGGCAACATACTGAGACTC
CGTCTCTCCAAAAAAAAAAAAAANANNAAAANAAATTAAAAGAAATTGCTTNTTAAGCAGC
TTTNATATANACCTCCTTATCTCANCTNTNACNNCNCTCCCACCCCCATCACCATCTTTT
CCAGAGGTTGCCTGATGCTGNATAATTCCTGAGCCT

Sequence 3686

CTACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCTGAAACAGAAATT
ATGTGTTTGGGAGAACCGAGCTAAGGAAACATTTCAAAACCAATGTATGTTGATCCCACC
TGAGCTGCTTTGATATATGACAGCCTCTCATAATTACTGGTGTCACTATTGTTGTAAATG
AAGAATAGTTAAATATGGAGAGATTAAGACACAATTCAAAACACTTTTTAAAAAATAAAT
GGCTGTTTCATAAACACAAACAAATCTTTAAAAGAAAAATAATCACATCAATTGCAATAT
ACATTGGCAAATAGTAAAATGGTCATTTTCCAAAATAGGAGCTTCTTTATTATATGCCCC
ATCTATTATACCAATCTTGGGAATATATCTTAAACATAANNGGGGGATCATATGAAAAAN
GTTCCACTATTTCAATGGTGATNAAATTTAAATTAGGTTAGAATATGGATT

Sequence 3687

CCGGGCAGGTACCTTTATACTAAATTAATGGGTAGGTTTATTCCTGGCCTTCCCAGTTTT
TTGGGGGNCCCTTTTTTTTTNGGGGGAATTAATNATTTTTTGGGNTTTTGGGNATTAATT
TTTA

Sequence 3688

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGCGACAGAGTCTCGCTCTTGTTGCCC
AGGCTGGTCTCGAACTCCTGACCTCAGGTGATCTGCCCGCCTCAGCCTCCCAAAGTGCTG

Table 1

AGATTACAGGCATGAGCCACTGTGCCCAGCCTGTTTGGTTTGGTTTTAGCAATTAANATA
ATTTGGTTGTTAAGCCTTGCTTGTTTGCAACAATGAANATGGCACTTGAGATTCTGGAAA
GGACTTTNTAAACTCAAGGACCTATGNGNGATTGCTTTTATTACCTTTTTGTTTATTAGG
TTTTCAAGACTTGACATTT

Sequence 3689

AGGTACTTTTTTTCTTTTTCTTTTTTTTTTTTTTTTTTTTAGTTTTTGAGATCGTGTCTC
GCTCCTGTTGCGCATGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGATAATTGCT
TGAACCCGGGAGGTGGAGGTTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGG
CAACGGAGTGAGACTTTGTCTCGGAAAAAAAAAAAAAAAGATCTGGCGGATGAAAATAAC
CAGAATGAAAATAGCTAGAAAACTCAGCAAGCAGGAAGCTCCCTTTCTCACCCTTTTGTT
CCCTTGCCGATAGAATCAGTCACTATTGGAAAAAATGAAAGACGCTCTGTTTAAAAC

Sequence 3690

TACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTAACTCATCCAGTAT
CTGATTCTGTCTTTTCCTCTATCCATCTGTCTTCCATCTTTGCATCCATCATTCAACGAA
ATTTACAGCCTATGCAGATGTTCTGTGGTCTTAAACATGTTGTATTCCTCTTTGCCTTGG
CCATGCTTCCTCCCCTCCCAGCCGTTGTTCTCCCCCACGAGAATATCTTCTCTTTTCTGC
TTCTTAGTGGTTCTATTCTCAGTATCTGAAACTCTCATTTTCTGTCCCGCGTACCTGCCC
G

Sequence 3691

TACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTTTATTCC
TAAAAGAAATTACTTGGCCAGGTGCAGTGGCTCACGCCTATAATCCCAATGCTTTGGGAG
GCTGAGGTGGAAGCCAAGGAGTTTCAGGCTGCAGTGAGCTATGATCACACCACTGTGTTC
CAGCCTGGGAGACAAAGCAAGATCCTGTCTCTTTTAAAACAAAAAACAAACAAACCAAAA
AAAAAACAAAAAAAAAACCTAAGAAATGTAATTAATCATTAAGTAGCTGCAAATTGAACT
GTTCTATTTTGATACTTCCTAAGAGTGTCCAGTGTAATCAGATCATTTTATAATGGGTTA
TTGACCCCAGGTGTCCTTTAGAACCACCTGGAAAGCTTTACAAAAAAAAAAAAAGGGTGA
TTTTGATTTAAGTTGTTATGGAATAGGACCCAGGTATCAATTTTTT

Sequence 3692

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGCTGTCCCC
TCTCTGACTAGAAAACAGTTTCCCTAGATACCTGCATAGTTAGCCCCCTGAGCTTATTTC
AATTCTCTGCTCAAATGTCATGTAAATGGTGACATCTTCCCTGACCATCTTATATAAAAT
AATACTTCCCTTTCCCCTGATATTCTCTATCCACCTTATCCTGTTTGATTTTTCTGCACT
GCCCCATCAACCATTGACATATAACATGTCTACTTGTTTATATATGTATTGTGTTTCACC
AGCATTGAAATGTGACTTTCACGAGGGTAGGGATTTTTGTCTGTTTTATTTAATACTGTA
TCCCCAAGAATGCCTTGCATAAATTGGGACTAACAAATATTTATTGAATTGAATAAATGA
ATACATTTGGGGAAGGGCGCAAAAGGAGTCCTTGCCCCTGAAAATTCATTTTCTTTTC

Sequence 3693

GGCCGAGGTACCTCTGGGCCATTTTGCAGAACCCTNNCCTNNTTTGGTTTTTGAGGAAAG
CTCGCTCCCTGCCCAGGTTTTTCATTGNTGATCGAAANTAACACCAGGTGGTGAATAGAG
CCCCTCCTAAGGNTGCTCAGGATAAATCATTTATTAAATAGGTCTGCTTATCAGGAGGGG
CGTGAAGGCTCCCAAAAGGAAATGCTGGCACCTGGGCCCAGAAGCCAGGGCCTCTAACTC
CTGGGGTTGATCTCTTCAGTGAAGTTTGCACCCTACAAAGGGAATATGGCCAAAGC

Sequence 3694

CCTCGCGGTGGCGGCCGAGGTACGTGGAGAATANGNCATATATGCCACTAGGCTACNTGA
ACTNTTCACGTTTGTATTTTGTGTTGGCCTATGTATAAGCCAATCTAGCATGTTTGAGGG
CATGTGTGAGAGTAGGTAAGGGAGCTGTAAGTTACATTCAGGTGGGAATTTAGGGCTTTC
TGCACAAAAAATTCTAATTTCTCTGTCCTTTTGCTATGTTGCATCTCCCAGTGTTGACAG
GTTAGTCTGCATGATTAATAACTGAGCAAGCTGTAGAGCCATGCCAGTAAGTCTCCAATT
CCTGAACGTGGCCACATTTGTCTTTTGATGTGACTTTCAACCACAAGCCACAAAGTAAGT
CTTTCACTAGGCTCCGTTGACTTCAGTCTTTATATAAA

Sequence 3695

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAGACGACGC
TTTCTTTGCCTGCCCCAACCTGAGAGGAGTGTTATCGGGGAACCCAGGATCTCCTCCATC
TCCTATAGAAAGCAAGTTACAAAATATCAAAAAAGAAAGCCCAAATTTTCCATGAAGAGG
TTACATATCTAGGTGTCATATTGAGCCACGAGGAACACTGGTTTGGCTATGAGAGGAAGC
AAGCCATTTGTGCACTTCTAACCCCGACTACCCGATGACAAATAGGAATTTTTAGACGCA
GCAACATTCTGCCACATNTGGATTCCAAGTTTTTCACTGATGGCTAAGCTGTTATATGAC

Table 1

NCCACAAAAGGAGGGGAAAAGGAGCCCCTTTTTTAAAAAACTAACCAAGGAAATAGCCTT
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Sequence 3696
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TTTCAAACTCCTAGGCTCAAGCAATCTTCCAGCCTCAGCCTCCTAAAGTGCTGGGATTAC
AGGCATGAGCCACCACACCCGGCCAAGTTCTTTACCATCTTCAGAAGGCTTAGCTTGCAC
TTTTGGAAGAAGAATAGACTCCCAGGAAGACTGTGAGAGAGATTTGGGGCCCAAATTGAT
ATTAACAAATACACTGAACTTGATTGTATTCACCATGTTCTGGCTCTTGAGAAATGAGAG
TGCTAGTGAGGCTGGTGCCACTTTGGGTATTCTTCTGGACCTGCCCGGGCGGCCGCTCTA
GAAACTAGTGGGATCCCCCGGGCTG
Sequence 3697
AGTTNAATTGGAGCTCCCCGCGGTGGCGGCCGAGCCGGTAACGGAGAANGTTTACGCCGA
CTTTGGCCTGTATTAGCGCGTATGGCCTCGGGCCCTCGTTCCCCAAGGCGTGCCGCCTCC
CTGTTCTCAGTCGCAGGCTGAAGCCTTGTCTGCTCTCCTCCTTTTTGGTTTGGTTTTGGA
ACTGACTCCGAGGGTTGGGAGAGCGCGTTGGTGGCGACGGCCGAGTCAGATCACTATAAA
CAAAATTTCCACAAGAGAAAATGTTGAAATAGGAGTTGCGGATACATTGGATATACTGGA
TGAAATACAAGCGGTTAATTTTTGTAACGTGAGGGAAAAGCCCACATTGCTGGTTACATG
TGTAAATCACTGCGTTATTGCTTTAGTCATTGTCTCTNTTTTAGCAATGACCAAGACTGG
AAGAAGTAAATAGAGGAAAGTGGAACCATGCATTCTTTCAGTGCGGGTATCTTGGC
Sequence 3698
CCGCGGTGGCGGCCGAGGTACTGGAACAGGGATAAGTTCTTGGATNAGGTGCCAACATAC
CTATAAAAGCTGATTTTTGAGTAAATTATTGATTCTAACATATGTAATGGATTTGGTGCG
ATAATTTTCTGATCTTTAACTATAAGTGACTTTTTATTCTCCACCAGAAAAGATAAATGA
CTGAGAATGTAAGTCTGCGCTCTGATTAACACAATGGAGAAACGGAAAAACTATCTCTGT
TAAAAACTGATTCCTGTCATTCTTCTGATATCAAATAAGAGGAAGGAAAATAAACTTTTT
GTGTGTAGATAGAAAAACATACCTGAGGCCAGGTGCAGTGGATCACGCCTGTAATCCCAG
CACTTTG
Sequence 3699
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AGAGGATTAACACAGTGGCTGAACACCAGAAGGAACTGGCACTTGGAGTCCAGACATCTA
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TGGACCAACCAGCAGGACATAGACCATCTGACCCGAATGATCCTGCAATGAGACCACATT
GCCAGTGGAGATGACAACAGCACTGCTCTGGTCACTCTGGAAGATGACCAGTCTATGCAT
GGTGGAAGCTTGAGAAAATAGCAAGCCCTGCTCTAGTCACACCAAGAACTGACTAGTCTA
TGCA
Sequence 3700
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GGAGAAGGGCAGTGGCTGTAGCTGCNTTTTCCGTTTCCAGGGTTCCGACCAGGTCGTTGA
GGACTTCCACATGGAGATTGGCACAGGACCAGACTCAAGACACACAACTCATACGTTGAT
GAAAAATTGGATATCACTACTTTAACTGGCGTTCCAGAAGAGCGTATAAAAACTAGAAAA
GTCAGGATCTTTGTTCCTGCTCGCAATAACATGCAGTCTGGAGTAAACAACACAAAGAAA
TGGAAGATGGAGTTTGATACCAGGGAGCGATGGGAAAATCCTTTGATGGGTTGGGCATCA
ACGGCTGATCCCTTATCCAACATGGTTCTAACCTTCAGTACACAAGCGTGCTGAAGTGGT
TGGAGAAGAGTTCAGTGAGGACATCATGGGTGAGAAACTTCCGTAGGTTCAAGCCATTCT
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TGAAGGTCAGCAGACTCCCATCGGCGGTCATTGGTGAAAATCCCATC
Sequence 3701
CCGGGCGAATNGGAGNTCCCCGCGGTGGCGGCCGAGGTACTACTCGATTGTCAACGTCAA
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GTCCGCCGTAGNNGGTGTACACAGGCCAAGAAAAAACCGTATCAAAATGTAAAATCAATT
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GAAGGGAGAAGGGGAAATAATGGGCACTAAGAAAGCAGAAAGAGACATATTTGGAGGGAG
ATGGCTACCGAAATCTGGGCTTTTCTTAGATCCTCTCTCCANGGAAAGTTATCACTGGAAAT
ACCCAAGGCCCTGATTGTATGCACTGTGCTAGGGAGAAAGACATTCAGATGCTGAAATAA
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Table 1

AATAATCAAACTTCTAATAATGNATAACCCTCTCCAAGAGANGAACCTCCAAGAACAGCT
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TAGAACCAAGGGGGANCCC
Sequence 3702
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AATTAACACCAGGTGGTGAATNTAGCNTTTTCTAAGGTTGCTCAGGATAAATCATTTATT
AAATAGGTCTGCTTATCAGGAGGGGCGTGAAGGCTCCCAAAAGGAAATGCTGGCACTGGG
CCCAGAAGCCAGGGCCTCTAACTCCTGGGGTTGATTTCTTCAGTGAAGTTGCACCCTACA
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TCCCCGTTTGATTTTGATGCAAGAGTGAACAAAAGCTATCTCTACTTGTCTCCTAGTGGA
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Sequence 3703
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AGATTTTGGTTGCTTTCTTGCCAAAATAAGTGTTAACTGTGTTTCAAACTTGATTTTCTT
TCTCTTTTCTTTTTTTTTCTTCCAGAATGTCTTATTTAAAAAGAAAGCTAAAAGCATACT
TCTAAGTCAGAACCTNTATTTTGGTGGAAGACTTGGGATAT
Sequence 3704
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TTCCAGCTAACTGGGCGGCTGAGGCAGGAGAATGGCGTGAACCTGGGAGGTGGAGCTTGC
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TGAGAAGGCCAGGAAAAGAAAGAGCTGAAAATGGA
Sequence 3705
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TAATCAAATTAATTCATATGTCTAACACCCTCATAGTTGCCTTTTATTGTTCGGTGATGA
GAGCATTTAAGATCCACTCTCTTAGAATGTCAAGTAGGATCCTTGCTTCCAAAATGCCAA
AGGAAAGAAGGAACAATGGTCATGCCATTCACTTGCAGCCTGTTCACTGCAAGAACTGTG
CTCAATGCATGCCCAGGAATAAGGCTATTAAGAAGTTTGTCATTAAAAACATAGCAGAGG
CCACTGCAGTGAGGGACATTTCTGAAGTGAGCCCTCAATGCTCACAGTGTTTCCCAAGCT
GTATGTGAAGCTATATTGCTGTGCGAATTGTACCTCGGCCGCTCTAGAACTAGTG
Sequence 3706
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CAACGTGTGGTATGGCTACACTTAGAACATGAGAACATAAAGCCATTTTTATGCTTACTA
CTAAAAGCTGTCCACTGTAGAGTTGCTGTATGTAGCAATGTGTATCCACTCTACGGGGTC
AGCTTTTAGTAGAGAGCATAAAAATGATAAAATACTTCTTGAAAACTTAGTTTACTATAC
ATCTTGCCCTATTAATATGTTCTCTTAACGTGTGCCATTGTTCTCTTTGACCATTTTCCT
ATAATGATGTTGATGTTCAACACCTGGACTGAATGTCTGTTCTCAGATCCCTTGGATGTT
ACAGATGAGGCAGTCTGACTGTCCTTTCTACTTGAAAGATTAAGAATATGTATCCA
Sequence 3707
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GNAATGCAGTGGCGCANTCTTGNCTCACTTTAACCTNCACTTNCCTGGTTCAAGCATCCC
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TNTTGTATNNNTAGTAGAGACGGNGTTTCACCATGCANGCCCAGCTGGCCACGTNNGNNC
TAAAGCAAGGGGCGNGAANAAGGCACAGGGAGGNATGTGGCTGNNCTCGNGGTANNTCAT
TCGGCCTAAATNGACCTGGTATTAAATTTCANGAAGGANCTNGCNNTTNCTCTTCTAGAC
CCTTCTCTTTAAAGGNTAAAANATTAATGTTTAGANTGACAAAGATGAATTATNACAATA
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Table 1

554/863

Sequence 3708
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GAGNGANAGGANCATCATCCNCNCTTTACATNGTGAGGAAACAGGGGCAAGGAAAAGCAN
TTGCCCAGAGAGGCACAGCTAGACAGAGGGGAGCATCAATTNGAAAATCCAGGCNTTCTC
ACTCCAGGGCCCNCTCTAGCTACATAAGCAGAGGGTTCGGCAGNAAANGAGGAGCCCAGC
TCCGAAGATGGNAGGGCNGGAGCCCAAACATTANANCCCCTTGAGCACATGGGGCCAGCC
NTGANAGNGCAAAAGCCCNGGGNCAAGGAAACCCGGCTCTACANCANGACGTGGGGGAAC
CNGGGCAAGGCTTTAAACCNCACCACACCAGGGCNGCGCNGGGCCANCAAGATTCCCTAN
CAGGGAGAGGGGGACCTAAGAAAAACCANCTGGAGAGCANGGCTGCAAACCANAGGGGGG
GCCAGCCCCTGCCCAAAGAGCCCGAANNNGCNCACNAAACAAGGAAGANGGGCCNAACAA
NNGGAAANNGGNANCAAACCCNTTAAAAAAGGGGGANAAAAANGTTNNGAANNCCAAGGG
CNCNGACCCNGGGGGAAGGGACGGNAAAAGCCAAAAGAGCCCCACCCCNACCCCCGAAAA
GACCCGGGACCCNGGGCCGGTNAAAAAAAAGGGGACCCCCCNGGCGGGAAGNAACCAAAA
ANNNGCNAAACCAACNCCCCCCANCCCCNANNGGGGGGCCCC
Sequence 3709
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CGNGCTCGTATNACCATCCTTTCAANGNCTGCCTCNGAGNANACNGATGANCAAGTAGGC
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GCAGCCTGGCTAAGGAAAATGAGCCTNAGCAGCTACTTCACAANTAAAGGGAAATCCAAG
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GANACCGGCCAACNCCCGAGGGG
Sequence 3710
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GCCTCAGCCTCCTAAGTAGCTGGGNTCAGGCACGCACCACCACGCCCAGNTACTTTTTGT
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TATCTGAAAACNAAACAAAACAAAACAAAAAAAACCCCACCCTNCATAAAATCCCTAACA
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CATTGTAAAACCCAAAGTNGGGGGGGATTANGGGTGANAAAATTTGGGAATAACCGATGT
TTNAAANTTTTAAAAA
Sequence 3711
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TCTCTTGTGTTATGGAGCTCAGTTTTGAGGCACCTGGACTTACTCTCAGCTTTAGAAAGT
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TGTAGAGCAACATTCAGTCTACGATGGTATGATTCCATTTCGTCAGTCTTTGCCTGCTTT
GTTTTTCCTTCTC
Sequence 3712
GGANCTTTTTTTTTTTTTTTTTTTGNANNCANANTTTTTATNNGAGCAGANATCACACCA
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AACTCCAATAGGNGCTCTTGAATGCAGGTTTCTGATAACTTTGGAGATTGGGACAACAGA
ATAGAGGAAGAACCTTCAGGACTCATGGAGAGCTAAATGTTCATGAGTATCAAGCAGGAA
TTAACAGGAATTAACTGCATGGACTGAACCAATCTTTTTTA
Sequence 3713
CTNTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCAC
ACAGATGGCATTTTAAAGTTTATAAATGAATAATGTCTGATGAAAACATCAAAGCTACTT
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Table 1

TTAGACCCGTTTCCTATAGATGAGAAACCATACAAGCTGTGGTATTTATGAGCCTCCATT
TCTTATACTACTGCAGTGAACCAACATTGGATGTGAAAATTGCCTTTTGTCAGGGATTCN
ATAAACAAGTGGATGTGTCATATATTGCCAAACATTACAACATGAGCAAAAGCAAAGTTG
ACAACCA

Sequence 3714

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GGCTGGAATGTCGTNTATTGGGAGTGCCACCACCTCAGATATTTTGGAAGAAAGAAAGTG
AATCACTCACTCACAGCACTGACCGAGTGAGGTAAGACTGCACAATGAGAACCTGATCCT
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TTTCTTAAAAGTGTTTATCATTCTATCTAAAAGAAAAGATGAATTCATTTGCTTTAGTGA
TAAAAGACTATTCAGTGGTTTTTGT

Sequence 3715

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CTGCAACCTCCGCCTNTNAGGTTCAAGAGATTCTNTTGCCTCAGCCTCCTAACTGGGATA
ACAGACACCTGCTACCATGCCCGGCTCATTTTTTTTTGTATTTTTAGTAGAGACGGGGTT
TCACCATGTTGGCCTGGCTGGTCTCG

Sequence 3716

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGGACCTTTTTTTTTTTTTTTT
TTTTTTTTGGGNNACGGGAGNCCCACTNTGTCACCCAGGCTGGAGTGCAGNGGCACGATC
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GTAGCTGGAATCACAGGCACATGCCACCACGCCCGGCTAATTTTTGTATTTTTAGTANAG
ACAGGGTTTCGCCATGCTGGTCAGGCTGGTCTTGAACTCCTGACCTCAGGNGATCCACCC
ACCTNGGCCTCCAAAGNGCTGGGATTACAGGCATGAGCCACTGCTCCTGGCCCCAGNTTN
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ATGAAGGCTTTTCATACAAATGAATG

Sequence 3717

CTTAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTACTTCTTTTTTTTTTTTTTA
AGAGATGNTATNTTGCTACATTGGCCAGGCTGGTCTCGAACTCCTGGCCTGAAGTGATCC
TTCTGCCTTGGCCTCCCAAAATGCTGAGATTGTAGGCATGAGCCGCCATGCCTAGCCCAG
CTTGTCTTTTTGTTTACTTACCAGTGTTTTTCAGAGAACAAAAATTTTAATTTGATGAAG
TCCAATTAATTAAATTTTTAAAATAGAGNGTGATTTTTTTGTCATGTCTAANAAACTATT
GTCTAGTCCTAGGTCCTAATTCTCCTTTGTTTTCTTCTAAATGTTTTATTATTTTACCAT
GTTAACGTTTAGATTTATGATCTATTTTAAGTTTTTTTTAAGTATGAGGNTTATGTTTTT
TGNTTGG

Sequence 3718

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ACTACAGGTGCATGCCACCATGCCCAGCTAATTTTTGTATTTTTTTGTAGAGACAGGGTT
TTGCTCTGTTGCTCAGGCTGGTCTTGAACTCCAGGACTCAGTCTAACCACCAGCCTTGGC
CTCTCAAAGNGCTAGGATTACAGGCTTGAGCCACCATGCTCGGCCTATATTTCCTTCAAA
TGNGTGTTTTGCGCTTAAGTATTTCTTCTGTTGGCCAAATCTCTGATTTCCCATTTTAAT
TAAGNCTTAANGTTTGCAAANTATTTTTTTNATCTTTTTAAG

Sequence 3719

TTNNAGCTCCCCGCNGGGGCGGCCGAGGTACTGANCCAAAGGGATATGTCAAAACNCCCT
TTTTTTTCAGGGACCAGGCAGGAGAAGAGAGNCNNAACACCNGGGNAATGNNGGGAAATA
NATGTCATAATGCTCCTTTTTGGCAGAAGAGTTACATTACCAGGGTGTCAAACCCAGCAA
TATGTCACAATTGCTTATGTGGNCGGGGAACAGGCAGGAGAGTCACATAACCTGGGCATA
GGGCTCAGAGACATGTCCCAACGCCTTCCGTAGGCAGTGCCAAGGCAGGGGAGGAGA

Sequence 3720

ATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACGCGGGAAATCAAG
GGGTCTTAAGAGTTGTTTCCTTCTGAGGCTGGAAGAGAATCTGTTCTGTGCCTCTCTCGT

Table 1

AGCTCCTGGTGGTTTGCTAGAAGTCTTTGGCATTCCTTGGCTTGTGACAGCATAACTCTG
ATATTCATATGGCTTTCTCACTCTATCTCTGTATCCAAATCTCCCCTTTTCACAAGGACT
TGATCATATTGGATTAGGCCCACCCTAATGACCTCACCTTAACTAGATCATCTGCAAAGA
CCTTGTTTCCAAGGTGCTAGGGTGGTGGGTGGAGACAGGGGAGAGACTATTCAATTCATA
ACACCTAAGTATTGTGTCTCCTTAGNCCGTTTCAGTCCCCACCCAGCCCTGACTTGACTC
TCAGCTGCTTTGGGGT

Sequence 3721

TACCAGGTTTTAAAATCCCNCCAATTTTTTTNGAATGCCTTTTGGCNTAATGGGGAAAGG
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GGNAAAGGGGGGGGGAAAAAGGGAAAAAGGGGGAAAAGGAGGAAATGGGGNCCTCCAAGG
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AGGGGAAAAAAAACCCCCCCCAAATTAACCCGAACCAAGGGGGGGAAGGGGCCACCAAGG
CCCCATTAAAAAGGGAAGGGAAGGTTCCAAAAAAACCTTTNG

Sequence 3722

NCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTTN
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GGAGGAATGGGGTG

Sequence 3723

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTCACTGCAACCTCTGCCTT
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TTTCATGAATGAAATGCAGATAGAATCTGTAAGTCACTTGCTACATTAAAATACTCAGGC
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TTTTAAAATAGGT

Sequence 3724

GGGCGAANTTTAGCGCACCGCCGGGGCGGCCGAGGNACTTTTTTTTTTTTTGNTTTNAAC
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ACCGCAACCGNCCCTGTATACNCNNNACCCACACAGCANANCCACATTGCCNACAACACA
GGGGGGGCCCAAAAAACGCCNAAANGNTNGGGGGCNGAANNCAAAATAAATAAAGACCNG
CAGNTTATANGCATAAAANCANAAACNCTAAGGGGATCACTACCACATTGCCAAATCCAC
CANAATAAAAGG

Sequence 3725

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CTGTAATCCCAACTACTTGGGAAGCTGAGANGGGAGCATTGTTTGAAGCCAGGAGGTCAA
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CACAAAAAAAAAAAAAAGGACCTGC

Sequence 3726

CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGCTATGGTGAAGTTTT
NTTGTTNACTTGGATGCCAGGTAGGCATGTCTTCAGGTTCTAGTCACGGCAGTGGTAGGC
CAAATATTCCTTTCCTTGGGACCTAGGGCAGTGTATAATGGCATTAGTGTTGGCTAGTCC
AGATAGCTGATTCTTGAACCTCTAGGTGGCTTGCCTGGTTACTGGTAGTGACAGCAGTAG
GCCAGTTGGGTGGGCAGGTTTTTGGGCTCCTGGGCATGAAGTATGCTATGGGCAATATCA
GTAGCCGTGGCAGGACAAATCTCTGGCTTCCGAGTTGTCTATCCCGGT

Sequence 3727

Table 1

GNCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTACCATCTTGTCTCTCAGTAGG
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CCCTCTAAAGTTCTTGGATAAAGCAAGGTAAGGATCCTTCTCTAGGGATGAAGTCCTCAG
GACAAAGGAGTAATATCAACTTCAGGTAGTTGTGTCTGTAGTTCACACCTGTGATAGTCA
TTGGTCAGTAGGCTTGAGCTGACTTGGCCCTAATGAGTCCTTGCTCCTTTTGG
Sequence 3728
GNAGCTCCCCGCGGTGGCGGCCGAGTTGTGATGTTTGCCNCACAACAGGGGTTTTTTGGC
AATGTCTGGAGACATTTTTATTGTTATAGCTGAACAGGAAAGTGCTACTGGCATCTGGGA
GGAGGCTGCTAAACATCTCACAATGTGTTACCCTGTCCCAAATGTCAGTCGNGTTGAGGC
TGAGAAACATGGTTTAAATGAGTCAGAGGCTGGCCACAGTGGCACGTGCCTGTAGTCCCA
GCTACTCAGGAGGCTTGCGGTGGAAGATTGCCTTAACCCCAGGAGTTNCAAAGACTAGAC
TGGGGTGATNNTANCAAGACCNTCTTGNNTTNAAAATAAAGAAGGTNAAAAAATNNNTTG
GANTTAAAAGNCTTNGTAAANNTNCCCNNCCNTTTCAAAAATTNAAAGGGNTTTTAAACC
CNNAAAAAAAANTTTAAAAAAAA
Sequence 3729
NCCCCGCGGNGGCGGCCGCCTGGGCAGGTACAGTNGCACAATCATGGTTTACTGCAGCCT
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CATATCCCATCGCACCCAGTTTTTGGGTTTTTTTTGTTTTTTTGTTTTTTGTTTTTTGTT
TTTGTCTTTCAGAGAGATGGGGTCTCACTATGTTGCCCAGGATGATATCAAAACTCTTGG
ACTAAAGCAGGTCCTCCTGCCTTGGGCCCTCCCAGGGGGGTNGGGAATAANAGGGCANTG
GGNAGCCNNCNTAATCNANGGNGGGGGNTTTTANACNTCNNAAAAAAAAAAAAAAAAAGGC
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NNTTTTTTNAAAAAAAAAAANNGGGGGGGNNNANNAAAAANAAACNCNNTNCCCCCAAAAA
AAAANTTTGNGGGGGGGGGNGGGGGGGNCCCNCCCCCCNAAAAAGAAAANNTTGTGGNNN
CCCCCCCCCCCCCCC
Sequence 3730
CCCCGCGGNGGCGGCCGCCTGGGCAGGTACAACTTGAAACATGAGCTTTTTTGGGNCACA
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ATGCTTTGAGTATAAATTAAGTNTACCTCTTTTTGCACAGCAACATGGCCAATCTTTCCT
AAGCTGCTCAGCTAACAAGAAAAGGGAATCAAACTGCTAAGAATTCNAAACTTCAACCAG
CCAAAAGGGTAAAGTAAGGGAAGNCTTAATAAAACCTAATTNCANNCCCCCTAACCCANN
NAAACCCTNGAAAAATTAANGCGGGGGGTNCTTTTAAAATTTTCANNNANNNAGGGGGGG
GGGNCNNCCCTAAGAAACNNGGGGGCCCCCCNCTNCTNGGGGGGGGNGACANCTCNNNNGGNNA
AAAAAAANGGGNAANGGGGGGCCCCCCNCTNCTNGGGGGGGGNGACANCTCNNNNGGNNA
AATNGGGGGGGGGGGG
Sequence 3731
GTGGCGGCCGAGGGACTTTTTTTTTTTTTTTTTTTTTTTTTNGGAAATTTCCCTAAAAGATT
CCTGCTTCCTTCTGGAACAACAGAGCAACAGGGCAGTTGTGATGTTGGGTTTAGATGACN
CTTATTTAGGAGATGGAGCAATAAGATCAGAGGTCTTCTAAGGATTCTGGGGAGTCAGNG
TNTAGATGGAAACCAAATATGAGNGNGTAGCCCCAGAAACTGCTCANATAACCTGGTCAG
AAACTAGGCAAGCTGGCAGGGGTTG
Sequence 3732
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCAGGTACGCGGNGTCGNTGATG
AAATNGANGCCAATNTTGAANAGNTCNACATCAGNGAGGATGACATNGATGATGGATTNA
GGANACTGNTTGCCCAGTTGGCAGGAGAGCTCCCACGGGGGGCCAATAACTATGCTCTGG
TTATGTGTCCACAGGATGCGGAGATCCCTGNCTTTGAGNTGNAGACCATCCTGAGAAGGG
GTCTAGCAAAGNGCCAAGATATCAAGTCA
Sequence 3733
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNGGTACCCANTACTTANGTNGNA
NTGTTGGNNCGAAAGTAAAAACACTACCTNTTTTGAGACTNTGCCCAGGGTCCTGT
Sequence 3734
ATAGGGCGNTTTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCAGTT
TGAATCGCGGTGCGACGANTTTTAGGTGGTGGGATCTCACCGTGGGTCCGATTAGCCTTT
TCTCTGCCTTGCTTGCTTGAGCTTCAGCGGAATTCGAAATGGCCGGCGGTAAGGTGGAAA
GGACTCCGGAAAGGCCAAGACAAAGGCGGTTTCCCGCTCGCAGAGAGCCGGCTTGCAGTT

Table 1

CCCAGTGGGCCGTATTCATCGACACCTAAAATCTAGGACGACCAGTCATGGACGTGTGGG
CGCGACTGCCGCTGTGTACATTTTCCTGAAGAAGCTTANATATAGTTGTGTTAAGTATTT
TCCCCTGGAATACGCCCCATTATACTTTCTCATGGATAGTCAGTTTGGTGCTTTTTAATC
CTCTCCTTTTAAAAAAGCATTTTTTGGTTAAACATTTTTGGAGTCTGTTGTGTAATAAGT
GGTGAGTAAAACAGATCTAAGTCCTGGTTCTTATGGAACTTATAGTCTACTACCGTTTTT
TTTTTTTTT
Sequence 3735
CCCACTATAGGGCGNTTTGGAGCTCCACCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTT
TTTTTTTTTTTNNGCATTATTATGAGGNTTTCCTTAAAGGTTGGGGAACTTGGGCGACTT
TGGCTAATGAGGAGCTCTGTGCCTTGAGCCCCCCAGGCCATANAATAGTAAATAGTCTGT
GCTCCAGCCCTGCAGTGTGAGGTTCCAGTCCTGTGGGCTCCACACCCATCACCTGTATCA
GGAGGCTCATGTCTCACCCTGTCTTCTTGCCAGCCTTGAGGATGGAGTCTGAGCCTCCAT
CGTGCACCACGCAGGGAGGACAGCGGACTTGTTCTCCGTGGTCATGGNCCAACAAAGGGG
AAGGGCAGTTCAACCGAAGTGCTGAGGGACGGTTGGGAGCCTTGTTTTGTATCCTCATCC
TCAGGAAAAAAACAGGAAAAGTGCGGTGGNCAAATGGGAGGAGACCAACGTGCAAACTGT
CGGCTCAACAGACTGNGGAAGTTTCTGTTCTTGGTTATGGGCGGGGGGGGGCGGGCTCAA
AAATCTTATTCAAAATTTTGCTTTCCTCCCCCACTGGTTGNCCTTTTCATAGACATCTCA
CCCATGAATAGCAGGGAAATGAGTCCCTNTNAACTATTCTTTTAAGAACCAATTAAAA
Sequence 3736
GGCGGCCGCCCGGCAGGTACAGCTCCCAGTCTACTGATGTTTAAGGATGGTCTCGGTGTT
TAGGNCCACTAGAATAAACTGAGTCCAATACCTCTACACAGTTATGTTTAACTGGGCTCT
TTGACACCGGGAAGAAGGTGGCGGGGTTTAGGGTGCAAACTTCAATGGTTATGCGGGGAT
GTTCACAGAGCAAGCTTTGGTATCTAGCTAGTCTAGCATTCATTAGCTAATGGTGTCCTT
TGGTATTTATTAAAATCACCACAGCATAGGGGGACTTTATGTTTAGGTTTTGTCTAAGAG
TTAGCTTATCTGCTTCTTGTGCTAACAGGGCTATTGCTACCAGGGACTTTGGACATGGGG
GCCAGCGTTTGGAAACCTCATCTAGTTGTTTTGAGAGATAGGCCACTGGCCTTGGCCAGG
GCCCTACAGTCTGGGTTAAAACTCCAACTGCCACTTTTTCTCTTTCTGACACATAAGAAG
TGTAAAAGGTTTTGTCAGGTCAGGTAAGCCCCAGGGCTGGGGCTGACATGGGGTTTTTTT
CTT
Sequence 3737
TTAGGGCGAATTGGAGCTCCCCGTGGTGGCGGCCGAGGTACGAGATGCCACGGCACGAAG
TCTACGTTCTCCTGATCCGAAACATCTTTTTGAAAATATCAATCATTGGCATTCTTTGTT
ACTATTGGCTCAACACCGTGGCCCTGTCTGGTGAAGAGTGTTGGGAAACCCTCATTGCCA
GCATCTACCGGCTCCTTCTGATGGATTTTGTGTTCTCTTTAGTCAATTCCTTCCTGGGGG
AGTTTCTGAGGAGAATCATTGGGATGCAACTGATCACAAGTCTTGGCCTTCAGGAGTTTG
ACATTGCCAGGAACGTTCTAGAACTGATCTATGCACAAACTCTGGTGTGGATTGGCATCT
TCTTCTGCCCCCTGCTGCCCTTTATCCAAATGATTATGCTTTTCATCATGTTCTACTCCA
AAAATATCAGCCTGATGATGAATTTCCAGCCTCCGAGCAAAGCCTGGCGGGCCTCACAGA
TGATGACTTTCTTCATCTTCTTGCTCTTTTTCCCATCCTTCAC
Sequence 3738
ANCNCCCCGGAGCTCCACNTTNGNGGCGGCCCNGGTACTACCTGAGTCTGGGCAATTTAT
AAACAAAAGGGGTNCANGTGACTCACAGTTTTGCATGGTTGGGGAGACCTCAGGAAACTT
ACAATCATGACGAACCTCGGGGAACTTACAATTGTGACGAAAGGCAAAGGGGAAGCANCC
TTCTTCACAAGGTGGCAGGAGAGAGTGCAGGGAAAACTGCCACTTTTAAAACCATCAGAT
CTTGTGAGAACTCCCTCACTATCACAAGAACAGCATGGGGAAACAGCCCCCATGATCCAA
TCACCTCCCACCAGGTCCCTCCCCTGACACGTGGGGATTACAATTCAAGATGAGATTTGG
GTGGGGACACAGAGCCAAATCATATCAAGCCTCCTAACTTCACATTTGGTAAATTTGATT
TCTGGTCCTGCCCG
Sequence 3739
CCCGGAGCTCCACCTTNGTGGCGGCCGCCGGTACATGCAAAAAAAAAAAAAAANTTNGGAT
GAATCTAGAACCATGTTGAGTGAAAGNTTNNAGANGCAAAATAATAAATACGGTATGACT
CCATTTACATGCAATCCCAGAGCAGGCAAACTAATCTATGGTGATAGGATTAGAAAGGTT
CCCTCAGCAGGGTGCAGTAGCTCACACCTGCAATCCCAGCACTTTGGGAGGCCGAGGTGT
GTGGATCATGAAGTCAGGAGATCGAGGCCATCCTGGCTAACATGGTGAAACCCCATCTCT
ACTAAAAATACAAACAATTAGCCTGGTGTGGTGGTGGGCACCTGTAGTCCCAGCTCCTCG
GGAGGCTGAGGCAGGAGAATGGCATGAACCCAGGAGGTGGAGCTTGCAGTGAGCCGAGAT
TGTGCCACTGCAGTCCAGCCTCAAAAAAAAGAAAGTGGTTCCCTCAGTGAGAAGGAAAGG

Table 1

GGGTTT
Sequence 3740
GCGAATTGGAGTTTNCCGCGGTGGCGGCCCGCCCGGCAGGTACTTAAATATTATATATTT
TCCATTTCATAATTGTTTTCCTTTCTCTGTGGCTTTAAAGTTTTTGACTATTTTACAATG
TTAATCACTAGGTAACTTGCCATATTTCTGGTTCTATATTAAGTTCTATCCTTAATGCTG
TTATTATAAAGCTGGTTTTTAGCATTTGTCTGTAGCAATAGAAATTTTACTAAGTCTCTG
TTCTCCCAGTAAGTTTTTTCTTTTCTCAGTAAGTCCCTAAGAAAACATTTGTTTGCCACT
CTTACTATTCCCAATCTTGGATTGTTCGAGCTGAAAAAAAATTTGATGAGAAACAGGAGG
ATCCTTTTCTGGTGAATATAGGTTCCTGCTTTAAGAATGTGGAAATCCATTGCTTTATAT
AACTAATATACACACAGATTAATTAAAATTGTGAGAAATAATTCACACATGACAAGGAGG
TAACATGCATGAGTTTTGAATTTTTTTAAAAACCCAACTGTTTGACAAAATATAGAACCC
AAATTGGTACCTCG
Sequence 3741
CCCCGGAGNTTCCCNTTGTGGCGGCCGNGGTACGGTATTCTGTGAGCTGGGGATAGACAG
ATACCCTTTCATTGTGGGCNNGGGGTTNATGTANCAAAGGACCAATTTTCCTGGAGATCC
TATTACGNGAAGGGACTTATACTGGACACATCATGGAGAAAATCAGAAAGAAGGTGCTTA
ATAAGACCCACTCCTGGATGCGGCCACTCTCAATTCTCAGTGTCTTTGGGAAGCAAGGTT
CGCCATCCACTTGTCTAAACAGATGATGATAGCAGAGGTGCTGCACACCTTCTCCCTGTG
ACTTGTGAATGCCTTTCATGCTCCCAAATAAGGAACTCCTCTCACTGCTGTCTGCTCTGA
GCTGTATTTCATTTTGATAGCCATTTGCAGGAGACACCTTTGAACTCCATGCAATGTAAA
AGATGTCGTTGAGAAATTCTTCAATGGAATTTCTTCCCCTTTTCCCCCACCC
Sequence 3742
CCGGCGGCCGCCCGGGCAGTTACTTTTAAGGATNAANCCCNCCCNTTTNTTTCGCCCAAA
AACAAAACNNNATGGAAAAACCGACACCAAAAAAGGNGAGGGCCGCNGAANACCNGACAA
AACCAAAGGGAAAGACANNAGCGGGGGAAAGNAAGAAGAAAAAGGGAAATNAGGANAAGG
CTTCCGGGGAGACANCACAAAANNAAAANNCAGGAAGCNGCGGAAACAAAAGGGGGGCCT
TCTNCAAAANGAACNCCCCNCGGGGAGGCGGGCCCTNCCCCCGGGAGGCGGGCACAACAC
GGGGGAACAACCCACACAAANAACCACGGGCNGAGCAGGGCCGAAAACCG
Sequence 3743
GAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTACTTTTTTTTTTTTTTCTTTGTGANGGA
CGTCTTACTCTGTCGTCCAGGCTGGAGTGCAGNGGTGNGATCACAGCTCAGNGCAGTGAA
CTCCTGGACTNAAGCCACCCTCCCACTTNAGCCTCCCAAGTAGCCGGNACAACAAGCACA
AGCCACCACACCTGGCTAATTTTNAAAATATTTTGTAGCGATGGGGGCCTCCCTGTGTTT
CCCAGGCTGATCTCGACCTCCGAGGCTCAATCTATNCCCCCACCTCGGTCTCCCAAAGTG
NTGGGATTACAGGNTTGACAACTGTNCCCGGCCTGGGCTTTTTGGAANGAGTCTTCCTGG
TCCCGACAGTTCTCCTGCANGTCCTTGTGGAGGCCANTCTTTGTTTTTTNATGACCNAAA
TTTTGCTTTTTTGGAGTAAGAGGCCTGGNACCCCTGGGAGCTGGTTTTGGG
Sequence 3744
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCCAGGGTACGCGGGNGA
CAGAAGCTTCTGGGTATGGGGCTGGAGAAGGGTCGGNGAGATATTTCCGTTAGGACATCG
CTGAAACACAGACTGGGATCAAACTGTGCTCATAGTCCTAAGGATCTCCAGCACCCTGCC
GGTGGCACTACTGANAGACGAGGTGCCAGGGTGGTTCCTGAAAGTGCCTGAGCCCCAACT
TATCAGCAAGGAGCTCATNATGCTGACAGAAGTCATGGAGGTTT
Sequence 3745
TCCCCGNGGNGGCGGCCGAGGTACAAACTATGCATATNATAACTACCANGTTTTATNAGG
TCAAGACTAAATCAAAAATTNTCAAGGACTTTTCTAAAAATTTTTTTAGCATAAACTGTT
TCCTCTAACTTAAACTTCTCTTAAGTGAACCTGTCTTTCCACTGGGATGACTGTCTACAT
GCTCAGGAATCCTGAATTCATGACTATGTTCAACTCCCACGACCATTTTTAAATCATCAA
AATGGCAGCAAATGTCATTACCTGGACCAAAAAGCTGCAGGTTTTGTGGCAAATGGGAAA
TGTGTTATAGAATATGACTGGGAAAGAGGGATTTCTTAGTGCTGCCCAGAATTAATTCAG
CAAACACTGAACATTACTACGTGCCACATATAGGANCATACTGCATTTCGAAGCG
Sequence 3746
GNCGAGGCACTAAATAATTTGATCATGGCATTGCNCACATTNTTTTNTAANCGGAGAGTG
AATATTTTATTNGNNGATGTATTCTTCACTTATTAATGATGAGGTCAATGAACTGATGCA
NTTATTAAAAAAAAAAAAAAACAGACAACCNTATNAAGGAAAAAACANAANCAAAANCAA
AAAAAACCAAACGTCCATTCTNATTCNGAATCTGCNGACTGGAGGGAANCCAGTGGTCAC
AATNCCACCATCAAATAANAANCAAC

Table 1

Sequence 3747
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCNGGCCGGNTCCGNNNANANTN
AANNNCCNGGATAAACAGGTTCGNAANGCCNGATGGNGAGAATAGAGCTCGCTTCCTTCC
AGGGAAAGATCTGACCGAAAAAGAAATGATCCAAAAATTAGACAAGCTGGAACTACAACT
GGCCAAGAAGGAGGAGAAGCTGCTGGAGAAGGATTTCATCTATGAGCAGGTCTCCAGGCT
CACAGACAGGCTCTGCAGCAAAACTCAGGGCTGCAAGCAGGACACACTGCTCTTAGCCAA
GAAGATGAATGGCTATCAAAGAAGGATCAAAAATGCAACTGAGAAAATGATGGCTTTTGT
TGCTGAGCTGTCCATGAAACAAGCCCTAACCATTGAACTCCAAAAGGGAAGTCGGGGAGA
AAGAAGACTTCATCTTCACTTGCAATTCCA
Sequence 3748
TNCATTNCAACTTATAAAACGTCCANTTTTNNNTNAAAGGAGAAATTATGGCACCNGGNC
TTTNCCNNTTCTATCAGNGCGANGATAAANGATTATGATTCAAACTACATTTCTCTTTTC
TAGGCTNNGNCCCANAAAAANNTGNGCAGTTTTTCAACATTAGAATTCTTAATTCTATNG
GAAACAAAACAAAACAAAACAAAACAAAAACAAAACCAAACCAGACCTCAAGGGCAACAA
ATCTATTGGGANATTGNTTACGAACAAAGNCCAC
Sequence 3749
NATTTAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTNCGCGGGCAACCATCAAGCAGCT
CNTTTNCCCAGCACTTCTACCTGAATTTCACCATCACCAACCTACCATATTCCCAGGACA
AAGCCCAGCCAGGCACCACCAATTACCAGAGGAACAAAAGGAATATTGAGGATGCGCTCA
ACCAACTCTTCCGAAACAGCAGCATCAAGAGTTATTTTTCTGACTGTCAAGTTTCAACAT
TCAGGTCTGTCCCCAACAGGCACCACACCGGGGTGGACTCCCTGTGTAACTTCTCGCCAC
TGGCTCGGAGAGTAGACAGAGTTGCCATCTATGAGGAATTTCTGCGGATGACCCGGAATG
GTACCT
Sequence 3750
CGAATTGTAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTNCGTGTCACTTTNNGTATCT
CATTTTTTNGTAGCCATGNGCATAGCTAAAAATGGGTTTAGTGAGTGGGTAACTAANGAG
ATAGAAAGGGAGAAAGGATATTGGGAGGAATCGTAGTCTTTGCTACAAGGTAATACCGTA
TAATTTTTTAAATGATAAAGTCGTATAAGTAAGGGTCAAAAGTCACTTGTAGCTAACTTT
CATTAGTTCCACCTTTTCCTTGCCTAGCACAGTTAGCATGGTCTTGGNATCTAGNGNAAA
TCTGATCTTATCCAAACATGAANTTGTTACTTTTTA
Sequence 3751
GANCGCCCGGCGGCCGCCCGGGCAGNTACAGATNNAGATGAAAANCACCAGAATGTAGNN
CNNCTAGGCNNANATCTTTGGNGGGAGAGTCGGGGNNACACCNGANNGGCCAGGGCGAAC
NTCNAACCTCAAGNGANCCACCCGCCNCAGCCTCCCAAAGGGANAGGAACACAGGCATGA
GCCACCGNGCCCACTGAGAATTAAAAACACTTTATGNAAGNNAANTNTTTANGAAAGNNA
TCTAGCTNTGCCAGACCAAGTNTGGNAGNAAAGGGAAAACANNAAAAAAGNNGGAANCCT
CCAAAANCTGGGGCNCNAANNAAAGAAANNNNAAGGNNNGAACCNNGGNNCAGNCNANCA
ANCCTTNAANAAAAAAAAANGGCAAGGGCTTTNCCAAAAGNGAAACGGGAAACAAGANNC
ANGGGAAAAAAGNAA
Sequence 3752
GGCCGCCCGGGCAGGTTCGGCACAGAGGNTGACTTNGCTGTTTTTNCTTCTACCAAGCTG
GCCCGGATAGAAGAACCAAAGAGAGTGCTGCTCTACGTTCGAAAGGAGTCAGAAGAAGTC
TTTGATGCCCTGATGCTCAAAACCCCATCTTTGAAGGGCTTGATGGAAGCTATCTCAGAC
AAATACGATGTTCCCCATGACAAGATTGGGAAAATATTCAAGAAGTGTAAAAAGGGGATC
CTGGTGAACATGGACGACAACATTGTGAAGCATTACTCCAATGAGGACACCTTCCAGCTG
CAGATTGAAGAAGCCGGGGGGTCTTACAAGCTCACCCTGACGGAGATCTAAAGGCCTGCG
GGCCACAGCTCCCCANGAGTTCAGTGCAGGNGTTTCTAGATCTTACGGTTTGGCAACTGC
AGGTAAC
Sequence 3753
CATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTCCAC
TGCAGTCTGGTTGATGGCTTTGGCCTTGAGGCTAGGTGCAGGTGGGCGAATCCCTCTGGT
CATAACATGCTCAAATGCCAGAGGGCTATCCCCCAAGTCAGTCTTGGCCCAGGCAGAAAT
CTCATAGGATGTATGAGCTGTCAGATTGCCAACTTTGTGTGACAATATGCTTCCTCGGAA
GTTCAAAGTTCTCCTCTCTTGCTTGTGGGTGTCAAATGCCCAGAAAAGGTTCACCACATA
GCCATTCACCTGCCGAGAACCAAGAAGCATGTTAGATGAACAGGCTAGTCATGGGGCACA
CTAAATACAAAAGGCAGGATTAAAAATACACCTCTTTTCCTGGTCTTTCTTGGGTATCTC
ATTTTTACAGTAACAGGTTGGTTTTTTAAAAA

Table 1

561/863

Sequence 3754
CCGCGGTGGCGGCCGCCCGGGCAAGGTACTCAGTTTGGTCTTCTTTCAGGTGTAGGATAA
CTTTTGTTCCACGACCCATAGGTTCACCTGCAAGAGAAGAAAGAAAAATTGACTTAATAA
TACATTCAATTTAGTGCCCAACGCCATGCCTAACACCCTTATAACGTGTCTATAAAGCAA
GGTTTGCCGTTACTACAGATGCAAAGGCCACCACAGCAGAACCTTTTGGGCAAGGTGCCT
CGCCCAAAAGAACCGCCCACCAAGTCATGCCATTACACTAATTAAGTGCTCTAGCTTGTT
CCCGATCGTTGGGCAAACACAAATTCTGTAGGCTTCACCGCATCCCCAGGGGTCCAAGGG
TTGCAGCACCCCACCCTTCCACCGCTCACTTAACCA
Sequence 3755
CCGGNCAGGTACGATCTTGGCTCACTGNAACCTCTCCCTCCCGGGTTCAAGTGATTCTCG
TGCCTCAGCCTNTTGAGTAGCTGGGATTACAGGCGCGTGCCACTGCGTCCGGCTAATTTT
TNCATTTTTTAGTATGAGATGGGGTTATCACCATGTTGGCCATGGCTGATCTCAAACTCC
TGACCTCATGTGGTCCACCCACCTTGGCCTCCCAAAGTGCTTGGGGTATTACAGGNCGTT
GAGCACACNCGCGCCTCATGCTCTACAAAGNCAATTTTTTTTAANAAAAACTNGACNNCC
CTTATTTACTGNATAAAAACTTCCTCTTGNTTTAAAAAATTCTCTTATTTTTACCTAATT
TTTTAAAAAGGATTAAAGGTNTTTAATTTTTTTTTTTTTTTTAAANTNANCAAANTANTN
TTTCCTNGNTTTAATTTGGGATTAAAAAAATTTTTAAAAGGGNCNATTTTTTTCATTTNG
CCNCTTTTTTGGCNANNAAATTTTAACTTCCANTNAACCTTAACCCNTAANACCAATGGG
GAAANAGGNAAAGGGGTTTTTTAAATTTATTTTTTCAANAATTGGGGGATTNATTTTTNA
TNTTCTAAAAAAATTAAAA
Sequence 3756
CCGGGCAGGTACCGCGGGGGTGCTGGGTGGAAAAGGCTTTTTAGTTATTGGCTAATTACT
TGAAAAGNCATCAAGAGTNCATATAACTAGACCTGTCCTTGGANCAAATTTTTATCTTTT
TNCAAANATACCTTTGATGGNTTATTTCATGNGAGTACCTTTGCTGAAGCAGCTTNGTGA
TCATATTTNNGTTTATGTAACCCANTCCATNTTGGNATACNTTGGCNCCCTGCCAAAAAG
GTTTCAAACNTTTTNCCCNTATTATTAACATTTATTTTNGTCTAGCNNTGNATATTCTAT
TTGGGNAAACTTGGCTTTAACNAATTCTTACCATCTCATCCCATTNCCNCCAAGTAAATT
AGGGGAAACCAANTTTATTTTAAAAAGAAATTATATTGGCNACCGG
Sequence 3757
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAANNAAAAAAAAANNCNTTTNNNANTTTAA
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CNNNACCNCCCNTTNAAAANTTGNANAANAGNCCCTTTTTTNCGGGNNNGGNTTTNNNNN
AAAAAAACNNTNGGGGNGGGNNGTTTTTTCCNGGGGGGGGGAGTTTTTTTNGGGGGAAAT
TTTAACCGCCNCAACCNCAAAAAGGGNGAGAAAAAAAGGGAACTTNGAATNTTNCCCCCC
NGGGGGGNCCNCTTTNAAAAAAAANGNCCNCAAAAAANGGGNCCNCAANCCCAAAAANNN
GCCCCCGGGGGGGGGTATNAAAAAAAAAAAGNCCCCCCCCCCAAAAAAAAAAAA
Sequence 3758
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTAAAAAAGAGAGTATTTCAAAGTGGA
AATAAATAGGTTGAAACTGTTGAGAGGTCTAATTAGATGAGAACTAAAACATCCTTTGGA
TTTGGTAACAGAGTTACAACTGCATTTTTATTGAAAATGAAAATGCTTAATTGAGAGTGT
ATATAAACTTCTAGGTAAAGATGGCAAATTGAACTCATGCATCTAATTTTGCTTGTTCCT
GATGCCTCTCTTATACGATAAACAGATTTTTTTAATGGAGTCTCGCTCTGTCACCCAGGC
TGGAGTGCACCATCTCAGCTCACTGCAGCCTCCGCCTCCTGGGTTCAAGTGATT
Sequence 3759
ACAGTTTTCCCTCAGTTTTTTTCCCCTTCCTTACCCCTACCCCCATCAAATACAGCCCAA
CCAAATAACTGTGTTCTTAATTTAAAGGAAAATGGCAGACTTGATACCTGCTGAATATTT
CGTGTAGACAGAGTATGACAATGAATGAGATCCCCAGTCATTGCCCTTGTAAGCCTGGGC
AACAAGAGCAAAACTCAGTCTCAAAAAACAAAACAAAAAACCTGTTGGTATAGTACCT
Sequence 3760
AATNACGNACTCACTTATNNNGGGNGGNGGGNNNCCCGGGNNAAANNTATTTNGGGGGGG
NNNNANANNCCCTTTNNCCCCCCAACCCCCCGGNNCCGGGGGTTGGGGCCGGGGCCCGCC
CCGGGCCAGGGNACCTNNNNNTTTTTTTTTNNTTTTTTTTTTTTNNNNNNTATAAGGGAA
AGAACCTTTGGAAAAAGGGGGGTTTGGTTAAGGGNTCCAGANGGGAAAAAAAA
Sequence 3761
AGGTACTAACAGGGTGTCTGGTCTTAGAAGCCTCCCTTCAGATCCCAGCTGACCCTGGTG

Table 1

ACTGCCTGGCCTTGATGTTGGCTGCAGCCTTCTGATAGAACCACATGGATTCCACCCACA
GCTGGCCAGGCTTGTTACATGGGTCAGGGAATACAAATGGCCCCCCCCAGGGAGCAGGTG
TTGGCCTCAGTTTTCAGGGACCCTTGGTGTTGCTCCTTACCTAGAGCCCATTAATCTACC
CCATCAACTCTCTGCCATGAAAGCCATCTTCCAGGAGCCCTGTTTTTTGGAGCTGAACTG
CACAGATTATAGCTGCTATTGTACCTGCCCG

Sequence 3762

TGTCCCTTCTCCCCTGATTCTTCCCTCCGGGTAGGAGGGAAGAATCCGCCTGAGCAGTGG
CCTGCCAGCACTTGAGAGGCTCCGCAAGCACAAGTGTGTTTATGGGAGTTGTGCACATGC
TCAGTTGAGGCATTCTTCCCTTACCAGTCGAGTGTTTCTAGAGGAAGGTCATAGACTAAT
AGTCTAATAGTCTATGACCTTTAGTCATACTAGTGCACATGCCTGAGCCCACTCACCTGT
GAACCCCCAAAATTTGAGACAGGTCTCAATTAATTTAGAAAGTTTATTTTGCCAAGGTTG
AAGACATGCCCAGTGACATAGCCTCAAGAAGTCCTGATGACATGTGCCCAAGGTGGTCCG
GCC

Sequence 3763

CCGGGCAGAACTGGAAAAGGCCTTTGCAGGGACAGAGACGGAGAAGGCTCTTCGGTCGCG
TTTGGAAAGCAAGCTTTCAGAGATGAAGAAGATGCACGAGGGGGACTTGGCGATGGCTCT
GGTCCTGGATGAGAAAGACAGACTGATTGAGGAGTTGAAGCTGTCTTTGAAGAGCAAAGA
AGCTTTAATTCAGTGCCTTAAAGAGGAGAAATCTCAGATGGCATGTCCTGATGAGAATGT
GTCATCTGGAGAGCTCCGAGGACTTTGTGCTGCTCCAAGGGAAGAAAAGGAGAGAGAAAC
TGAGGCTGCACAAATGGAGCATCAGAAGGAGAGAAACAGCTTTCAAGAGAGGATCCAGGC

Sequence 3764

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNAGGNCTTCTTTATTTTCTTTNA
ATAATGTTTTATCATTTTCAACATATATATTGGATGGGGTCTTTTGTTAAATTTATTTCT
AAGTAGTTTATAAATTTGCTTCTATAAATTATTTTTAAAAATTAATGTTTTATTTTGGGG
CTTACTCTCTCCATGATTTTCTGCTAATCTTCTTGCTGCTCTGCCAATCTCATATTGTAT
CCTCTGACACTTTAAGCTAGTAAGGCTGCAGATTTTTGCCC

Sequence 3765

AAACCACCGCGGNGGCGGCCGCCCGGGCAGGNACAGTAATTNGGGGGGNTTAAAAACCCG
GNCCAAAGGAGGACNGCAGGGNAGAGAAGCAAGTTNAGNGGGCGCCGGGGNAGGAANCGA
CANAGCCNGCANGNGCAGNANGGCNGNGAAGGGGC

Sequence 3766

CCGGAAACTTTCCAACTTTNTTNAGGGGGGNCCGNAANTTTGGGGAAAGCCTTTCCCCAC
CCCCCGGCCCGGGGTTTGGGGGGGNCCCGGGGNCCCCCCGGCCCCCCCCCCGGGGGGGGCC
CCCAAGGGGGGTTAAACCCTTTTTTTTTCCTTTTTTNTTTGGGGGGGGCCCTTTTTTCCNA
ANANTTTTTTTCCCCCCCTTCCCCNAATTTTTTNNGGGGGGGAAAAAAAAAAANNTTNGG
GGNAAAAAAAAA

Sequence 3767

GNACCCACCGCGGGGGCGGCCGAGGAACGCNGCNNTTTNNNTAGCGGGNTGCGAAAACCC
NCCCCCGGAAAACACGTGANAGGCCNGGAGCGAACCCTAAAGGGGCGCCACANGAGCGCC
CCATCTCACCTCAATTAACTACANGGACAAACACAACCACAAAGGGGAGACAAGNGACCA
GGAAGAGAGAGCCAAAAAGCTAANNGNGCACCNACNNNGAAANGGAGAAAGGGGACCCNA
GGGGAANAGCACCGCANGAANCCAGGGAAAAGCNNGNNGGANATNGGGAAAGAGNCAGAG
AAAGGANGCNANNANANAAGACACCANGAGGCCCCCAGCCGANGNNNNACANCCCAGGCN
AACAAACGGGCCCCAAAAACAAGGC

Sequence 3768

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTTTTGGACATGTGAAGTGTGAGATGCTCGTGGGATATCCAGCAAAGGTGAAAGGTA
GGTGGTTGGACAGGAGTCTGGAGCTCAGGGAGCCATCAGCATGGTGACCCATGTGGACAA
GCTTAACTCGGTGATTTCACTGAAAGTCCCGGGACTGGGCGGCGTGATTGCCCAGGGCAT
GGGCTCTCAGNGGTATCATACTGCCCCCTAGGGGCTACCAGAAACTGCAGTCTATTTTTG
GNGGTCAGTAATACGGNGCTACTGGCATTGGAAGGAAGGGATCAGGGAGGGACTCTTAGA
TGTCCTGCAGTCTCCTTCGTAATGGAGAGGTACTNTAAATCCTGGGACTTTCAAAAGCCC
TGAATAACATTCATGTANATAAGAAAAATCT

Sequence 3769

AGGTACCAAAACAGAAAGAGGGTTTAAAAAACAGCTGCACAAACCAGAACACCCGATTCA
GAATCTTTTCTCCCTCTTGAGTTTTTGTAAAATACTTTATTATTGATTTTTGCTTTTTTT
CTCCCTTTCCCTCCCAGGAGAAGACATTTGGGTCTTGGCCTGAGGCAGGGGTGTTGAGCG

Table 1

ATGATGCTCTGATATGGAGCTGTCACTCTAGAGCTCGGCCAGATGGAAGACACTATAGAA
CCAGGTTGGACAGATTTGGGGTCAGGGTTGGAGGCTGAGTTCTTTTGAGGACTGGTTGGA
GTGGCAGCCAGATGGTGGCTGCTGACAAGGCAAGAGGAATTTCAGAGATTAAACATTGTC

Sequence 3770

TACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTCGCCAGCGGTTTTG
CCACAAGAGTATACGGAACAAAGGAGACAGGCTCATTTATAATCTGACGCGGCCACCCTC
CTGCTGCGTTCGGTTTCCATTGGCTGGGACGGGACCTCACCTTCTGTATTTGTCCCGACT
GGCTAGCACTTAGAACTTTTTAAAAGAGGCAAAGGCATAGGAGAACAAAGGAAGGAGGAA
GTAACTTGTGGAATATTGAGAAAGGTAAAAACACCTTTAAATAAGGAAGAGGAACAGGCT
ATGACCTAATGCTTGTTTGGATCAAGTATAAGCCATGTTAGGGCAAATATTTAGGCTAAA
ATTGTGGGAGCTAAGAACATAAAGTATATTTGATTTTTTATTATGGCTAGCAGATATTTA
AGA

Sequence 3771

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGNACAACGGNTATGCT
TNGAAGGCCAAANGGANCTGGTNTNTAATNCTTATTCCTCTCCNNACTAGTTTTGNGACC
TANGGAAATTTTGCAATCTTNNTGAGATTTGTTGTCTCATCAGGAACAGGNTGCTACCTA
AGNNACAGGATAGNTGNTAGATTNAAATNTGATCGCATGGC

Sequence 3772

AGGTACGTTCCTGGAGACATGGGTGTGTCTGTAGACTAATCCTTATTCTCCAATTATTGA
GTATAATATCTCTTGTTTAACATGAGGAAAGGGTCAAATTTGAGGAAAAATGGCCTCTTG
TTTGATGTGTTTTAGTTCATTATTCTCTTCTATTAAGAGAAATTCACTGTTAAAAAATTG
TTTCCCATTTCCGTATCTGAAATAATGACTGTAGTTGAGGTGATCTTGCCCTGGGTCTGA
AATCATACTTCCAAACCAAAAAGGACTTTGAATACAAAACTTTTAAGAAATCTTGTATGA
ATACAAGCTATATCTGAAAAATTGTGTTTTATAATATTGATGCCCAGTTTTGCC

Sequence 3773

AGGTACTTTTTTTTTTTTTTTTTTTTTTTGTATTTTTAGNAGAGACGGGATTTCACTGT
ATTAGCCAGGATGGTCTCAATCTCCTGACCTCATGATCCACCTGCCTTGGCCTCCCAAAG
TGCTGGGATTACAGGCATGAGCCACTGCGCCCAGCCGAGTCATTTTTTAATACTACTGCA
TGTGAGTTAACACAATCATTCCCAAATTGAAGTTTTAGATGGGCCCTCAAAATTTTTAGG
ATATGGTTTTCCTACAGGTTTATATTGAAAGTATGGGGTATCTCCTATTACTCCTCTTTT
TATTTGTCTTAAAGGAGAAAGGGAGAGGCCAGAGACCAAATGTCCCCATTTCCCTATA

Sequence 3774

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAACAAAATGAAAGGAAAAAGCCTCCTG
TAGCCACAGAAGGAGAAAGTGCATTGAATTTTAATTTATTTGAAAAATCTGCAGCTGCTA
CTGAAGAAGAGAAAGATAAAAAGAAAGANCCTCATGATGTAAGAAATTTTGACTATACTG
CTCGAAGTTGGACTGGAAAATCTCCCAAACAATTTCTGATTGATTGGGTCAGGAAGAATC
TTCCCAAGAGTCCAAATCCTTCCTTTGAAAAAGTTCCAGTAGGTAGATACTGGAAATGTA
GGGTTAGGGTAATCAAGTCTGAAGATGATGTCCTGGTAGTATGCCCTACAATCTTAACAG
AAGATGG

Sequence 3775

NGGGGAACCCCACCGCGGTGGCGGCCGCCCGGGCAGGACTTCCTTTNGGGGGTTNNAAAA
CCCTCCNNCCCNTTTTTTTTTTTAAAAACACTACTATAGTTTATAAAAACAAAAACAAGA
GCNCGTAGNGAGCANATTAGGATTACAGGCCTTCAC

Sequence 3776

CCGGGCAGGTACAGAACTGAAATTCAAATATCGAGGATAGCAAGAAAAGCTGGCAACTTC
TATGTATCTGCAGAACCCAAATTGGCGTTTGTCATCAGGATCGGAGGTTATCAATTGGGT
GAGCCCAAAGGTCTGAAAGGTGTTGCAACTTCTTTGCCTCATCAAATCTTCAATAGAAAC
TTTGTGAAGCTCAGCAGGGCTTCAATAATGTGCTGAGGTTTGTAGAACCATATATTGCAT
GGGCATACCCAAATCTGAAGTCAGTAAATAAACTAATCTACAAATGTGGTTATAGCAAAA
TGAATAAGAAGCTACTTGCTCCAACAGATAATACTTTGATTGCTCGATCTCTTGG

Sequence 3777

AGGTACAATCTAGTTATTCTTACAAGCAGTCAAATTCTAAAAAGGGAATAAACGAATTTT
CAGGGTATCAAGCCAAGTTTACCAAGTGGGCTTATTATATGTATTTATAATTCTTCCTAG
TATAGCCAATAATAAAATGAAAATAAGTGAAGAGAAATAAAAATGAAGGGTTAATTTCAG
GGTAGCAATGTAATAGTTTTTTATGCAGTTTATAAGCAAATGACATAGGCATCACCATGA
AGCTGACTTGATAAAATGAAGACCACTTATAGAAGACAGTGATTTTCAAACCCACTCCTC
AGATCCAAACAACTAAGGCTCTAGCCACCACTAACTTTAAACAGAGCAGTTCCACTTGTT

Table 1

AAAA
Sequence 3778
AGGTACCTCATCAATATGTGCATTTATTATTTGCCAATTAAAATAATATAAAACTCTTTA
AAAATTAAAAACCATATATTTCCCTAGTATTTCTGGGATGATTTTTTTTTCTCAATGACT
TTTGAGAATGCTTTTGCTTTGTTCTCAAACCTTTGATAATCTCCATCATTACTGGTTGGG
TATCCCTTATCTGAAATGCATGGGACCAGAAGTGTTTCAGATCTCAGATTATTTCATATT
TGAAAATATTTCCATACAGATAATGAAATATCTTAATAATGGAAACCAAGTATAAACAGG
AATTCATTTATGTTTCATACACACCTTATGCATGTAGCCTGAAGGTAATTTTATTA
Sequence 3779
AGGTACAACTTAAATACGTCCATATATGACCAGGTTCTTCTTATGCCAAGAGTGAACTCT
GTGCTGAATCAGTTAATGTTCTACTAAATAAAGGAAATTCACATTCGCTTTCTTGTTAGG
TTCATGCAAATATTGAAAACTCTTGGAATGAGGAAGAAGTTTGGAGAATTGAAATGTATA
TCTCCTTTGGCATAATGAGCCTTGGCTTACTTTCCCTCCTGGCAGTCACTTCTATCCCTT
CAGTGAGCAATGCTTTAAACTGGAGAGAATTCAGTTTTATTCAGGTATGTGGGGTTTTGT
TTGGTGAAGGATTGTGCAGGATAGGATTTCCTTGTTAAGAACAACTGCATTTTAAA
Sequence 3780
AGGTACGCGGGGTAACCACCTGGGAAAACTTCACAGAAAATGAGAGTTTCAGATACTGAG
AATAGAACCACTAAGAAGCAGAAAAGAGAAGATATTCTCGTGGGGGAGAACAACCGGCTG
GGAGGGGAGGAAGCATGGCCAAGGCAAAGAGGTGGGCATTAATAAGAACTGCTTCTTGCT
GCCGCCATATGAAGAAGGACGTGTTCGCTTCCCCTTCCTCCATGATTGTAAGTTTCCTGA
GACCTCGCCAGCCATGCTGAACTGAATACAACATGTTTAAGACCACAGAACATCTGCATA
GGCTGTAAATTTCGTTGAATGATGGATGCAAAGATGGAAGACAGATGGATAGAGGAAAAG
Sequence 3781
CCGGNGCCAAGGTACTTCATACAACTTAAGCCTAAACTAGATTAGATTATGTAGAAACTT
ATTCTTAGAGAATATATCGCCTTAATATTTCTTATCCTGAAAAGA
Sequence 3782
AGGTACATTTTACCCACACTAAAGAATAGGCCTGAGATGCTAATAAAGCCTCTAAGCTAT
TTTGAGGGCAGCTCAAAATCAGTGATATGGTTTGGATCTGTGTCCCCACCCAAGTCTCAT
GTTCTGTATTCATCCCCAGTGGTGGAGGTTGGGCCTGGTGGGAGGGGATAGAATCATGGT
GGTGATTCCTCATGGTTTCACATCACTCTCCTTGATGCTGTCATTGGATTAGTGAGTTCT
CCTGAGATCTGGTCTTTAAAAGTATGTGACACATCCCCCACTCTCTTCCTTCTGCTCTGG
CCACGTGAAATGCTAGCTCTCCTTTTGCCTTCCTCCATGACAGAAAGTT
Sequence 3783
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCCTTTTTTCTGTGAATAGCTTAACTCAG
GCCTGGGACAGTTGATCTTGAAAGAAGAGATGGANAAAGAGAGCCGGNAAAGGTCATCTN
TGTTAGCCAGTCGCTACGATTCTCCCATCAACTCAGCTTCACATATTCCATCATCTAAAA
CTGCATCTCTCCCTGGCTATGGAAGAAATGGGCTTCACCGGGTAAGATTTCTCCCCGATT
CATTGTTTCTGCCTTTACTCCCACCT
Sequence 3784
AGATACGCGGGAGGAGGAAAAAGTGAAGCGGCAGGAACGACTCAAGGAGGACCAGCAGAC
AGTCCTAAAGCCCCAGTTTTATGAGATCAAAGCAGGAGGAGAATTTAGAAGCTTCAAAGA
TTCTGCCACAAAGCAGAAACTGATGAACAAAACCCTTGAAGATCGTTTGAAAATTGAAGC
AAAAAATGGGACATTGAGTGTATCCGACACCACCGCCGGCAGCAAACAATTGACATTCAC
GTTAAAGAGGTCTGAACAGCAGAAGAAGCAACAGGAGGCTGAGAAACTGCATCGACAAGA
AAGGAAAAGACTCCGTCGTT
Sequence 3785
GGGCGCGCGTATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGTA
CCCAGAAAATAAGAAAGGGTTCCAAAATGAAGAATCGCTCCTTTTGCAAACCTTATGGTG
ACAAATATAATATTTATAAAAAGTGAATTAGGGTAATATGGTTAATGGGAGAAATAAACA
TCATTATGGAAATGCTATCTTAAACAAAAAATAAGAGAAANTNTTAGTTTAAAAATAGAA
CTTATAGTCGATTTAAAAAACAAGACCAANCTCTTAGCTATGCACAAGAAAGTTNCTTTA
CACATTCACAAATATAAANGGATGAGAAANCATGGNTTATGAAAATATGAACCGAAATAA
AGCTATAGTAGCTGTGCAAATTTCAGACAAANTAGACATCAGAAAAGACTT
Sequence 3786
CCGGGCAGGTACACTGGAGGCTGGAGCCTGCAGATGGCATGGCTCTGCGGCTCACCTTGC
TGCAGTTGGTGGTGGTGACAGAGACTGCAGCTTGACTGTAGTGTCCATGTTCTCCAGAGA
AGCAGAACGAGTTGGATGTATGTTTTGGAAGAGATTATGAGGAACCGGCTCATGTGATGA

Table 1

AGGAGGTTGAGAGGTCCTGTGCTCTGCCATCTGCAAGCTGAAGACCTGGAAAGCTGAGGG
TGTGGCTCCAGTCTGAGTCTGAAGGCCCAAGAACCAGGGGAACCAACGGTGTAGATTCCA
GGTTGAAGGCAGGAGAAG

Sequence 3787

CCGGGCAGGTACAGGTTTGAGGAAGCGGTGAAGGAGGCTCATGCTGTAGATCAAAAGCTT
GCAGAGAAGCAGGAAGATGAAGCCACCCTGGAAAATAAATGGCCCTTCCTTGGGGTTCCT
TTGACAGTCAAGGAAGCTTTCCAGCTACAAGGAATGCCCAATTCTTCTGGACTCATGAAC
CGTCGTGATGCCATTGCCAAAACAGATGCCACTGTGGTGGCATTACTGAAGGGAGCTGGT
GCCATTCCTCTTGGCATAACCAACTGTAGTGAGTTGTGTATGTGGTATGAATCCAGTAAC
AAGATCTATGGCCGATCAAACAACCCATATGATTTACAGCA

Sequence 3788

CCGGGCAGGTACATAGACTCCATTGATCTGGAGAAGATCACTGAAACCGAGGACCCTGTG
AAATTTCATGAAGCTTGGCAGAAGCTATGCAAAGCTGATGGTATCCTTGTGCCTGGAGGC
TTTGGAATCAGAGGAACATTGGGAAAACTCCAGGCGATTTCTTGGGCAAGGACAAAGAAG
ATTCCTTTTCAGGGAGCTTGTCTTGGGATGCAACTAGCAGTGATAGAGTTTGCAAGAAAC
TGCCTTAACTTGAAAGATGCTGATTCCACAGAGTTTAGGCCAAATGCCCCAGTTCCTCTG
GTGATTGATATGCCCGAGCACAACCCTGGCAATTTGG

Sequence 3789

AGGTACTACACCACTTTTCCTCACCAACCCCCATCCTATTCTTGAGTTGCAGGATACACT
TGCTCTCTGGAAGTGTGTCCTTACCCTTCTGCAGAGTGAGGAGCAAGCTGTTAGAGATGC
AGCCACGG[illegible]ACCGTGACAACTGCCATCGCTCTGGCCCTGGCCCTGGCCGTCCTGTGTGA
TGCCTTCTGCCAGGTGGATGCCTCCATCGCTCTGGCCCTGGCCCTGGCCGTCCTGTGTGA
TCTGCTCCAGCAGTGGGACCAGTTGGCCCCTGGACTGCCCATCCTGCTGGGATGGC

Sequence 3790

CCGGGCAGGTACTTTTCTCTGAAAGGAATCTTGTCTTGTTAAACCCTAAAGAGAGTGTCC
TTAATAGCAATCAGCACTTGTAAGCTTATATACTGGTGCATTTGGTTTTCTGTTGGGTGA
ATGCGGTGTGTGGGCCGTTTGTGGATTCTGAAAGAGAAAGCCGTGTGTCGTGTGCCATGA
CATTTCTATTGCACATTCTTTGTACTCAGAGGAATTTTTTTGTTTTGTTTTGTCTTTTAA
GAAAGGAAAGAAAGGATGAAAAAAATAAACAGAAAACTCAGCTCAGGCACAATTGTCACC
AAGGAGTTAAAAGCTTC

Sequence 3791

CCGGGCAGGTACCTCATGATATGGTTTGGCTTCGTGTCCTCACCCAAATCTCATCTTGTA
GCTCCCATAATTCCCACATGTTGTAGGAGGGACCCAGTGGGAGATGACTGAGTCATGGGA
GTGGATATTTCCCATGCTTTTCTCATGATAGTGAATGGGTCTCACAAGATCTGATGGTTT
TAAAAGTGGGAGTCTCCCTGCACAAGCTCTCCTTTTGCCTGCTGCCACCCACGTAAGACA
TGACTTGCTCTTCCTTGCCTTCTGCCATGACTATGAGGCCTCCCCAGCCATGTAGAACTG
TAAGTCCAATTATACCTCTTTCTTTT

Sequence 3792

CCGGGCAGGTACATATTTTTTAAAACTGGTTAGCGATAGCTACATGACCCAATTATATTT
TCTATATTTATTTGATTATCAGCCAGTAAACTCATAATGAAGCAGCTGCGCACTCCCCCA
ACAATTGAGAATTGAACAAATTTCCAGAGAGAAGTGAAAAATATCAAAAATTAAAATCCT
AAACTTGAAGACAAGTTGAGAGACCATTTAGTCTGGCCACCTGTATCCAAGATTCATTTA
AAACCAAGCAGCGGCCAGGCACCGATGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGC
CGAGGCGGGCGGATCAC

Sequence 3793

CCGGGCAGGTACGCGGGATTCCAGGGCAAAACACATTGTCCTAATGAAGTTGTTGCAGCT
CTCTTCGTTTTCTTGTGCCGCTGGAATTGGCTTGTGGGTCACTTGTTGTGCAAAAGTGAA
TTAATTTCAAATAGGAATCATATTGCTTTTGTGAAACAAAGAAAATTTACCACCTTGTCT
GATACATAGATTGGAAGGCGCTCTTGGTAAAGAATAACCCACAAACACCTGATCTTGATT
GGAAAGCATTGTAGGTCATTAGGGAAAACTGATGATGCTGACTGTTGCTCCAGCTGTGTT
GGCAATTCAAGATGACCTTGTTACTAACTGAAAGTT

Sequence 3794

CCGGGCAGGTACAGCAATGACTTCAGTAAGCCAGGCATCCTTGGATGTCTCCATGATAAT
AATTATTTCCTTAGGAGCAATTTGTGCAGTGTTGCTGGTTATTATTGGTGCTATTTGCAA
CTAGGTGTAACCGCGAGAAGAAAGACACTAGATCCTATAACTGCAGGGTGGCCGAATCAA
CTTACCAGCACCACCCAAAAAGGCCATCCCGGCAGATTCA

Sequence 3795

Table 1

AGGTACATATATCCACCATTTCTGGTGCTCTTCATTTCATCCTGTGGATTCAGGTTACCA
TCTGGTGTCATTTATTTTCTGTGTGAAGGATTTAGTATTTCTTGTAAGGCAGACGTCCAT
AGGCAACAAATTGTCTTAGTATTTGTCTGGGAATGTCTTTAATTTCACTTTTTTTCCAAC
TTTCAACAAAAGCTTCATATCCTGGTGATGTCTTTGTTATAAGGAAAAAAAAATCCCTAA
ATCCAGCCTTCAAATTGAAGTAACTATCTTTAATGTGAGAGCAATCCTATTCACAAAGCC
CCTCCCCAGAGTCAATCAAGGGTTTGGGGACCACATCT

Sequence 3796

AGGTGTGATGTTTGCCCCACAACAGGGGTCATTTGGCAATGTCTGGAGACATTTTTATTG
TTATAGCTGAACAGGAAAGTGCTACTGGCATCTGGGAGGAGGCTGCTAAACATCTCACAA
TGTGTTACCCCGTCCCAAATGTCAGTCGTGTTGAGGCTGAGAAACATGGTTTAAATGAGT
CAGAGGCTGGCCACAGTGGCACGTGCCTGTAGTCCCAGCTACTCAGGAGGCTGCGGTGGG
AGGATTGCCTTAACCCAGGAGTTCAAGACTAGACTGGGTGATATAGCAAGACCTCTGTCT
CAAATAAAGAAGTAAAAAATAAATGAATCAGAGACTAGTAAATCTACCTC

Sequence 3797

AGGTACGCGGGGCCCTTGCTCACTAGAAGGAGCCCCCTGACCCCTTCTTCCAAAAATACT
TTTTGTCTTTGTCTTCGTTTCTGCATTCATCCCCCTTCGTTCACTCCCATAACAACCAAC
AGCGACAACTGGCACCTAGGACAGGGACGTGAGTGAAGGTCTGCTGGAGCAGAGAAACTG
ACACTGACAAGAAGAACGAGAATGAGAAACCCTGCGACGAGTCTGCTGACAGCTGATATA
AGTCTGCAAAATCAGCTGGACCACCAAACGGCAATTGAGAGCTGCACAACCTGCAATTAC
CTTTATTCAATTAATGCAAAA

Sequence 3798

AGGTACTGTCCAAAGAAAGTCTGGGAAGAAACTCACAAACTCTGTGGAATCTTCTACTCC
ATCAGGCCTTGGGGAGGACTTTGCCTTAATTAGTTCTGTGAGCTCCGTCACATAATGCAG
CTGCTCCAGGGCCTGGTGGTTGATGGTGCTCATGCTGTTGTAGACAAAGGTGCTGCACAG
GAGCACAGCCAGGGCAAAGATCCAGGAGTCATTCTTAGGGTCACCCTGCTCTATAGCACC
GCAGGTCCAAGAACAGTTTTCAGTTGCCTCACTCACCTCTTGTTTTCTTTCCTCTCCCCG
CGTCCTGCCCG

Sequence 3799

CCGGGCAGGTACATTTCTTGTTAACCACGTTATTAAAACTTGATCAGCATGTAAGCTTTC
TTCTGTTAGATCTTTTGGCAGCAAACAACCTTCCCCCCAAGCCTCTGAATTTTGGAGGAG
GGTAGGCTTGATGAATTGTTTANAAATTTTGTGTTTGGNGGTGGCAGGAGGGGAGGGATC
ATGCGGCCTTCTGG

Sequence 3800

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTGNACACNTTTTACAAA
TTTAATTTTAAAGCATGTTNCAGTTNTTAAAAAGACAAACCATTATTCACTTCNTTGCTG
CGGCACCCTTTTTGGGCCAGGTTTTGTAACTTTNAAACATCAAAAAGGGTAGNGCATCAA
TTTTAACTAAAAAAATCAGTAGGGCCNAATATATTANCTNGGGCANAAAANTTCTTTTTT
TTAAANANATCCAAATNCACCATATTTTTACTNTTATNAAATAATGGTTTNAAANAAANA
ATCATCACAATGTTTANCNACATAATCCNANATCTGGGATAAANAAATGGGGATANNCGA
AATTTTAAAAATTCCC

Sequence 3801

ACTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTNTTTTTTTTTTTTTTTTTATTTTTTTTNANTNAAANAATTTTTTTTTTCAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAANCNAAATTTNCCCAAAAAAAAAAAAGGGGGGGC
NNAAAAAAAAAAAAAAAAAAAAANCCCCCCCCCCCCCCTTTTTTTTTNTTNAAAAAAAAAA
AAAAAANAACCCCCNNCCAANNNNNAAAANNAAAAAAACCCNANNNNNNGACNGTAAAAN
AAAAAAAAGGGGGNAAAAANNANNAAAANNAAAAAAAGNANCCCNCCCCCCNTAAAAAAA
ACCCCCCCCCCNNNNTNNAATNAACCCCCCCCCAAANAAAAAAAAAANCCCCCCCCNNAA
AAAAAAAAAAAAANCCCCCNNNGNAAAAAAAAAAAAAAAAAA

Sequence 3802

AGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTCTTTTTTCTTTCTTTTTTTTTTT
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GANNAAATNAAAAAAAAANTNAATAAACCCCCCNNCCCGNNGGGGGGNCCCCNNNCCNAA
NTTTTNNNCCCTNAAANNNNGGAAAAANNNCCCCCNGGGAAAAAAAANGAAAAAANNNNT
NCCNGGGNAAAAATGNNAACCCCAAAAAAATCCNAAAAAAAAAAANNGNNGGNAAAAAAAA
AGGAAAANCCNGGGGGNCCNAAAGGGGGGNCCAACCCAAAAAAAAGGGGGGGNCCCNNNC

Table 1

NCCCCCTTTNAAAAAGNAAAANCCGGGGGGCCNANNNAAAAAAAAAAACCCCCCACCCNC
CGGGAAAGGGG
Sequence 3803
CCGGGCAGGTACCAAGCCTCAAAATACTTGAACTAGAAGCCATCTCTTAAAGTTAAAAGT
AAGAAGCTCCAGGAAAAATAAAGATTGCATAGTAAAAAGGGATAGATGGCAGGATTAATT
CAACTCAACAAATATTTATCAAATGTCTACTCTGGTCAGGTGCTGTGTTAGCAGCCAGCT
TCCCTAAAGGGAGGAAAGGCTAGACACGAGGACATTGAGGATTGTTTATTTAAAGTCACT
CATAGGCATGCCATAATGGATTTATTAAGGGGAAATTGGGGTTTCTGTGAATCTTTACAG
GACATAGCCATGGAGACAATCACTATGTTAAGTAAGTTGCTGTTTTCCCA
Sequence 3804
CCGCGGTGGCGGCCGAGGTCAGGTAAGCCCTGGCTGCCTCCACCCACTCCCAGGGAGACC
AAAAGCCTTCATACATCTCAAGTTGGGGGACAAAAAAGGGGGAAGGGGGGGCACGAAGGC
TCATCATTCAAAATTAAAAACAAAATTAAAAAAANGTTTTTAANGGCGNAAGAATTTAAA
AAAAAAAANTTTTTTTGGCCTTTTTANNCTTAANNTTTTTNACCCCNGAAAAAGGGCCAA
TTGGGCTTTTTTTTAAATTTTTTCCCCCCCTTTNNGNGGNGGGGGAACCTTTTTGGGGGN
AAAAAAGGGNAAAATTTGGGGGGCCCCANTTTTTTTTCCCCCNTTTAAAAAAAAAAAAAA
AAANGGGGGGGNGGGGGGGGNTTTTTTTTTTT
Sequence 3805
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTGNCTTTGAGACAGTCTCACTCTGTCGC
CCAGGCTGGAGTGCAGTGGCACCATCTCATCTCACTGCAACCTCTGCCTCCCGGGTTCAA
GTGATTCTCATGCCTCAGCCTTCCGAGTAGCTGGGACTACAGGCATGCACCACCACACCC
ACTAATTTTTTGTATTTTTAGTANAGACGGTGTTTTGTCTTGTTGCCCAGGCTGGTCTCA
AACTCCTGAGCTCAAGTGATCCTCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCT
TCTGAACCACCATGCCCAGCCTAGAAGGNGGGTTTTCTTTCTTTCACCTGAGGTCCTCCC
AGCCTGTCTTTGCTATAGACTCAGGTATCAGATCAGCTAGCCCCTGTGAGTATTAACAAA
ATAAGACTGCCAATCTTATTCGAGTTCATAGGCTCTGAGTGAAATGTATATGGGCTTCAA
GGGGACACGTCCAGGGCCTTAAAGACCTTTNTTTCACTGCCAGGATGTTTTNTGGAAAAA
NCTAAGGGGAGNCTATCCTAAAAAAA
Sequence 3806
CCGGGCAGGTACATGGCGAAGCTAGAGACTGTAACCTGAAGATTGGGACAAATTAAAGAA
AAAAATGTGATTTAACACAATTACAAAAACTGTTACGTTAGGGTCAAACAAGAACCATTT
TATGAAACTGAATTACAACAAATGACATTATATCTAACTCTTCCGGGTCTCCACAGCACT
TATACTTACTTAAGCAGCTTAAACACTTCCGAGTCTCCACAGCACTCTGATACTTACTTA
AACAGCTCTTTTAACCTGCCCTAGTATTCTTAAGTGCAGCATATCTAATTTTTTTTTTCC
TCAGTAGTTTGAACACTTGCTGGCTATTTTTTCTGTCCAAGTTCTCAGTAACTTCGGCCT
GTGTAGTCAGTGGTTCTACACAGCCGACACTACTTCTTACATAACACTTGGTCTCTCTGG
CTTCTGGAAAGGGCGAGGGGTTACCTTCCGGAGTCCAGNGCTCTTTCGGCACTTCTGCAA
CCAGGCAGTGGTAAAAGGGGTGCT
Sequence 3807
GGGGCCGGGAAATATTTGGGGGGAANAACCTTTCCCCCCACCCCCGGGCCGGGGGTTGGG
GGGGCCCGGGGGGCCCCCCGGCCCCCCCCCGGGGGGGCCCCANGGGGTTTAAACCCGTTTA
AAAAAATNGGGGGGGGGGGGTGGGGAAAATTTTTAATTTTTTTTNAACCTTGGGAACCCT
GGGGGGGGAAATGGGGGGAATNGGGGAACCACCCGCCTGGGGGGGCCTTT
Sequence 3808
CCGGGCAGGTACGCGGGAATGTGGTTAAAACTAGAAATGAACTAAGCCTTGACTTTGACT
AGCAAGGCTCCTTTGCAGGAGCTGGTCTTAGGTATGCGCGGTAAGGAGAGTGTGATGGAG
ATTTCACCTTCGAGCCTCTTTCAATGGCTTTGTTTTCCTCTCTCATTCCTTCCTACTGTG
ACATTCTACAGTTAAGGTTATGGAAGAAAAGCGAAGTTGAAAAGACTTTTGTCAGTATTT
TGGGAAAGCTGAAACCCCCTATTTAGTGCCAAGATAAACAAGACAGAGGAGCTAGATTGC
AACATTCTCTCACTTGCAGTAGCAGAGAATCCTGCAAGTGAATCTCAGTTCAAAATGTGA
AAAAAAAAAAAAAAAAAGTACCT
Sequence 3809
CCGGGCAGGTACAACTTTGTGTTAGAGATGCCAAAAAATATACTTTCCAGGACTTCAAGT
TGAATTACTTCAAATGTTGTTCTACAGTGATTGTGCAATGGAATGAATTGGGTCCTTGCA
AAATTCATATATTGAAGCCCTAACCCCAAATGTAATTGTTTTTGCTGTAAGGAAGTAATT
CATATTAAATGAGCTGAGAAGGTGGGGTCCTGATCTGATAGGATTCTTGTCCTTATAAGA
AGAGCCACCAGAGAGGGGCCACCTGCAAGCCAGGAGGAGAACCCTCACGAGAAGCAGAAC

Table 1

CCTGCCAGACCTTGATCTGAAACTTCCA
Sequence 3810
CCGGGCAGGTACTGTGTCTCATCTATATGCACTCTCTGATGGGCAAGGAGGTATGAATTA
CGACTGAAGCCCTTACCACATGCCTTACACTTATAGGGCCTCTCTCTTGTGTGGACTCTG
AGGTGAACATTAAGATCTGAATTCCGGCTGAAGCCTTTACCACACTCATCACATTTATAT
GGTTTCTCTCTGATGTGATCTCTTTGATGTAAGTGAAAATATGAACTGTAACTGAAGCAC
TTTCCACACACTTCACATTTATATGGTTTTTCTCCAGTGTGAACTCTCTGATGAGTGTGA
AGAACAGAGCTATACGCAAAATCCTTTCCACACACATTGCATTTGTATGGTTTCTCCCCT
Sequence 3811
AGGTACGCGGGGCAGAAGAGATGGTTGTCAAGATCTTGTTCCTATTTCTGTATATGTGGG
AGAATTAGAATCACTCCTCTTATGCTCGAGCGGCCGCCCGGGCAGGTACTTTTTTGTTCT
CTTCTTTTTTCTTTTTTTTAATAGCATCCCGCTCTTATTTCAGAATAAAAAAAATTTTAAG
GTATGTTGAGTACGAATCTATAGAGCAATGAAAATGCAAGAGCAATAGCTATGGGCACCA
AATGGTCAATCTTCTTATCATAATGTTGAGTGGAAGAAGCCAGGTCCACCAGACACATGC
TGCTCATTTATGCAAAGTTTGGACACAGGCAAAACAAAACTAGTTTGATCGTGATGGG
Sequence 3812
CGGGCAGGTACAACTCTCCAGGGCACAATACGTTTACAGCTGCCTTTCCTTCACATACTT
TTCTAATTCAGAACTACTCACAATTCTAAGCAAATTCCCATTCACGAAGTCTGCCCATAA
TGCGACCTTCTCTTTTTTTTAACATATACATCTTAAAAAACAAATATATAAAAAATTCTTA
TTTTGCTGGAATGCTTTCAATTTTTCACATTTTACATGATCATCACATTTATTTCTTATA
TTGAAAGGCATGGTTTCTGTTGACATGTCGTGCAAAGCCAAAAAAAAAAAAAAAAAAAAA
AGGGCTGGATTGCTTTTCAATTGGTCTAACACTTTTCCTTGTCTAGGCTTTGGATTTT
Sequence 3813
AGGTACAGAGGCCGGTGGGCTCCCTGACATCCCTTCCAGGCAACCTGAAAGCACTGAAAT
AGCTTATGGCCCTGTGCCAGGGACCTTGGCCCAAGCTGCTGACCTCCAGGGTGGGGAGGG
AGCTACCCCCAGGAGAAGAGTCACTCAGACAGCAGTATGAGCAAGCCAGCCAGCAGCTCC
GTGCCTGCACCCAGCTCAGGGGAATCCCAGGGGGTTCAGATGCCCAGGAAGGAAAAGGGG
ACAGCGCTACTGCTATGGAATGAGACCACCACTTCTCCTGTTGTCCTTCCCAGCTTCTCC
CCAACCTCCCCTTTTCCCTAGTTTATAAGACAGGAGAAAAGGGAGAAAGCAAAAAGCTGG
Sequence 3814
CAGGNACTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTNATTTAAAAAAAAAAAANNNAATTTTANTTTTAAAAAAA
AAAAAAAAAANAAANANACACANAAACNAAAAAAAAANNAAAAAAAAAACNTGCTNACCNNN
AAAGCCCNAAAANCCCAAAAAAAACTAAAAAAAAAAAAAAAGAAAAAATCTTAAATGAAAA
AAAAAAAAAAAAAAANGNAAACACNGNNTNNCNTAAAAAACTGGGNAANNNAAAAAAAAAA
NTGNAAAATTTGNNAACAAACTTNAAAAAAAAAAAAAAAAAAANCCNNAAAAAAAAA
Sequence 3815
AGGTACTTTTTTTTTTTTTTTTTTTTTTNGGNATTATAATTTTTATGGCATTTTATAAAT
TTACCAATTTTTTCTTCTGGGGTTTTTCTTTTTTTCTTTTTTTTTTGTAGACACAGAGTC
TCTCTATATTGCCCAGGCTGGTCAGGAACTCCATGGCTCAAGTAATCGTCCCACCTAGGC
CTCCAAAGNGACTGAGTATTTTTGGTCATACTTAGGCCTGTTAAACCAAAACTATACAAA
TTTTTCCTGCATTTTCTTTAAGAACTTTCATATATTCATATTTAGTATTTGACTCATTTG
GAGTTTAATTTTCTCAGAAATAAGGTAGAAACCCAACCTGGGTGTTTTCTCAGTTTTC
Sequence 3816
CATCTTGGGTCATCGATGAGCCTCGCCCTGTGCCTGGTCCCGCTTGTGAGGGAAGGACAT
TAGAAAATGAATTGATGTGTTCCTTAAAGGATGGGCAGGAAAACAGATCCTGNTGTGGAT
ATTTATTTGAACGGGGATTACAGATTTTGAAATGAAGTCCACAAAGTGGGGCATTTACCA
ATGAGAAGNGAAAACAGACGAGAAAATCTTTGGATGGGCTTCACAAGACATGGCAACAAA
CAAAAATGGGAATTACTGTGATGGACTTTGAGGGNCAGCCCAAAGNCTGGGNGAGGGAGN
ATAACCCACGGGGGGCAGNAGGGGTCCAAGGNATTTCTGGGCCCCCTGNCTTGCCTTAAA
ACTGTGGCCGTTTTCATNAAACNCAAAATCATTTCATATNTTCTTAACCCCTCAAAAAAA
CAAAAGGCTTGTTTGTTAATTATTCCTNGATCTTCTTAACGGGTTTCCCTTTTTNGGGGC
CCCAACAATTTCTTTCCCAATATTATTCCCAGGCCCACAACTTCAATTTTTTTAAA
Sequence 3817
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCC
AAGAAAACGTTTTTATGGAAAACACTANTATGCCAGAAGGCACCATCTTTGAAAACACAA
ACTACAATNATTTTCCTGAGGCAGNTTCCCACTNGGACTGCNTTCAANTTANAGCCAACT

Table 1

GTTAAACAAACTGANACAAAATGGGAATACAACAACGNGGGCACTGACCTGTCCCCCGNG
CCCAAAAGCTTNAGTTACCCATTGNTNTCATCCCCAGGGGATCAGTTNGAAATTCCGNT
Sequence 3818
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGAGA
AATTGTAGACTTTACTCCTATATTCTCTTTCCAAGCCCTAGGATTAGCCATTTTTCCAAG
AAATGTTGCATACCATTCTGCTATGAAAGGAACCAAAACTCAAATCTTGATTCTGGGTGT
ATTTTTTGTTAATTTTGCTGTCTTTTCTTGTAGAACCTCTCAGGTAATGACTCTAGGAGG
TATGTGTTGTGTATTAACCCATATATACACACACATATAAACTTTTTATTTAATTTTTAT
ACCTATATTATGCTAAACTTGGAAATATATTGACACATCTGCCCTAAGTTAATACCACAT
GGAATGTTTATTACCTACCTTCTATTCCTGCCCCTAACCTCGCACTCCAACCGTGA
Sequence 3819
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTGGAGTTTCCTTGTAGTAGTAAGCATAGAGT
TTGATGATAAGTAAACGTCCCTTAACAAAAACCTCANCCTTATTACTATCCCATTAAAAA
ACAGCAAATACTTACTGAGTTNTTGTAAGAGCTAATGNCATTGTAAGATTTAAAACTAAG
GGCTTTTATCACTTTGCAAATTATTTTTTAAANGCATTCATCATTNGACAGTGTTCTCTC
ATTNCTTAAAATGCGAGTCATCTTNCAAAAGAGTTGGTTTTAACTGCCCTAAACATTTTC
GGGGAAGNATGCNGGGTTTAAATTTTTAAGTTTAATTAGNTCTGAATTAAAATAT
Sequence 3820
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTNTCTTTTTT
TTTTTTTGATACGGAGTTTCACTCTTGTTGCCCAGGCTGGAGTGCAATGGCGCGATCTCA
GCTCACTGCAACCTCCGCCTNCCAGGATGAAGCCATTCTCCTTCCTCAGCCTCCTGAGTA
GCTGGGATTACAGGGCTTTGTAGCTGAGCATGTTTCTAAATAACACAGCCACTCAACTGA
CATACCATGGATTATGTGAACTAACTTCAACGGTTCAGGAAGGAGAACTTTGTGTGTTCT
TTCGGAATANTCATTTTTAGCACCATGACCAANTACAAGGGTCAACTGTATTTGTTTGGT
AACGGACCAGGGGTTTNTTACTGAAGAGAAAGTTTGTTTG
Sequence 3821
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATTGCATCACCAAA
AGCTGTTTAATTTGGATTGTGTAGAATAAAAGAAAACTACATAAGTCTTTGTGGCTTTGA
TAAAAATTTTAAAATATAAAAATGAAAAAAAGAAACCCAAAAGCAGTATTCAAAACTAAC
AAATGTCACCTTGGACTATTNACAGTAAGACGCCTTTTTGACAGGAGAATCTTGTTCTCA
GCTTGTTCTTTTCCTCACATTTTACTTACAGGGATTCTCCCTCCCCCATCTGATCCCCTA
TTCATAACCTNTGTTCCCATTTCCTGTCTCACCATGNAAACAGCCATCTTTCCATGCTTC
TCTTCACTCATCTTTNGAGGTCTCTTCTNTGACACTCCTTTTTTCCT
Sequence 3822
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGGACACTAG
CCACACTTCAGGTGCCCAGTGTCCACACTGACTAGTGGTGACGGCGTTGGACAGTGCAGA
TACAGAACATTTCTGTCATCACAGAAAGTTCCTTTGGACAGAGCCATGTTAAGTGATGTT
ATCACAGGATGGACAGAAACATTCCCGTTTGATTTATTTTTCAGACCCAGTTTGTGGAGA
AAAATAATGATGCTTTACATATGTCTCTTGAATCCTTAATATGTGAATCCAGAGATAAGT
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GAAAACTTAGCTTCATCAGCGTGGGAAACAAGTTTAAGACACAGTTAAATTTGCTTCTGG
ATAAACTTTCGAAGTACCTCGGCCGCTCTAGAACTAG
Sequence 3823
GCGAATNGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACNATCTTGGCTCACTGCA
ACCTCTNCCTTTCGGGTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTAGCTGGGATTA
CAGGCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACC
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CTGGCNCCCATTAACTGGATAAAAATTCTCTGNTTTAAAATCCTATTTACTATTTTNAAA
GANAAGGTNNTTAGTTTTTTTTTTTAAAANANCAATAATTTCCTGTTANTNGATAAAAAT
TNAAGGNCNTTTTNAATTNGCCTTTTGNCNNNATTNNCTAAAACNNCCNNNAAGGGGGAN
NGGGGGGNTNANNATTTTTTAAAGGGGGGNNTTTTTTTTTTTAA
Sequence 3824
AGCTCCACCGCGGTGGCGGCCGAGGTCTTGNTNTTTTTTTTTTTTTTTTNNNCTTTAAA
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CAGACACTAGTGGAACCCCTAGGGCCACTGCATCTTGTTCATGGCAAAGAGGAAGGGAGG
TGAGGTCTGGGTAGAGTGCTTTTCCCAGTCCCCTGCTGGCACTTCTCCATGATGACAAGG

Table 1

AAGTNTCTGCCATCCTGGCCACAGTGCTGGGCTCCCTGCATGACAGTGAAAACAGTGACA
ATGTTCCAGCAAAGCCACCAGACAAAGTTCTTAAGGTCACAGGAGAGAAGGGAGCCCAGG
ATGGAAGGCACAGCANAGCCATGAGTCCTGGGGCAAAAAGTGCTGGGCTGANNCNTATTG
CTTTGCTAGACTTCCATAGGAATGGGCTTNTTGCGGCGAGAAAAGGGTGCCCCACCCTNT
ACTTGGACTACACTACTNTGAAACCTTGTGGCAAAGGCAGAAAAAAATNTGGTTTATCGN
GAGNGGNCAAACTGNGCTTTANTTTCAACANGCTTGCCCNAAAGANGGGCACAAGGGGAT
CAAAGGGGTTTNTTGAAAAATTAAGACTTGGTNGGCAAAAGGNAAAGGAAAAAGTGGNCT
ATTANGCAAATGGTGATGCCAAAAAGGTCAAGTGGCANTCAAANTGTTGNTTGTTACCTN
TGAAGNAANAAAAATGGGGGAAAGTAAANAATGCNTNTNCCNCCCTTTTGAANTTTCCCC
CAAAAGGAAAAGGGGGAAAAAAA

Sequence 3825

GGCCAATTGGAGCTCCNTTNCGGNGGCCGGCGGCCCGGCAGGTACGCGGGGGCTTNCTCT
TGAAGTGACCGCNTTNNAGACGGTTGTTTTAGAGCAAGGCCCATGTAGCATCCCTGGAGG
GCCTCATCCCTGAAGATAAGGTTGTGCTTCTGGCAGGTTCTCCCTTACAGAATGAACACC
TGGGTCAAGTGTGGGGTGGAAGCCCTGACAACCCTGGAAGTGGTTGGCCGCAGGCTAGGA
GTTCACAATGTCTAAAAGTCAGCTGATTTTGTGTTAAAATTCAGTGTCTGGCTTTGCTTC
AAAAATTGGGAAGATCGGCCGGACGCGGTGGCTCACGCCTGTAATCTCAGCACTTTGGGA
GGCCGAGGTGGGTGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACATGGTGAA
ACCCTGTCTCTACTAAAAATACAAAAAAAAAAAAAAAAGTACCT

Sequence 3826

CCGCGGTGGCGGCCCGAGGTCCTCACAGGTCCTCAAACTTTTTGGCTTCAGGAGACTTTT
TTCACTCTTAAAAATTATTGAGGGCTGGCCAGGTGTGGTAGCTCACGCCTGTAATCCCAG
AACTTTGGGAGGACATGGCGAGAGGATTGCTTGAGCCCAGAATTTGAGACCAGTCTGGCC
AACATAACGAGACCTCGTATCTAAAAATAATAACCCAGCCTGGTGGCACACGTCTGTGGT
CCCAGCTACTTGGGAGGCTAAGATGAGGGAATCACTTGAGCCCAGGCAATTGAGGCCTCC
AGTGAGCCGTGATTGTGCCACTGCACTCCAGCCTGGGCAACAGAGAGAGTCCCTGTCTCA
AAAAAAAAATTATTGAAGACCTCAATAATTTTTTATGTGAGTTATATCTATTAACATGCT
AGGAGGCCAATACAGCCTTGGGGAATTGAGGGACTATAACAAAAGATCTAGTATTTGNGG
TATCACAAAAGATGGGGAGAGACTGAAAAGTATTGGAATAAATAATGTCTGGAAAGGTAC
CAGTTGGCNAAAGGCAGAAAGNTTTAGATTCANGAGNCTGAGCCAAATCCCAACTGGGAA
AAATCCAAGGGATT

Sequence 3827

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGAAGACCAGGCCCCTTTC
CCTCCAAGCAGCAAGTAGCTGATGAAGATGAAATATGGAAGCAAAGACGAAGACAACAAT
CAGAAATTTCTGCAGCAGTAGAACGTGCTCGTAAACGGCGTGAAGAGGAAGAGCGAAATG
GAAGAACAAAGGAAGGCAGCTTGTGCGGAGAAACTGAAACGATTGGATGAGAAGCTTGGC
ATCCTGGAAAAACAACCATTTCCAGAGGAAATTAGGGAAAGGGAGCGAGAAAAAGAACGG
GAGCGTGAGAAAGAACTTGAAAAAGAACAAGAACAGGAGCGAGAGAAGGAGAGGGAAAAA
GACAGAGAGAGACAGCAGGAAAAGGAGAAAGAGCTGGAGAAGGAGCAGGAAAAACAAAGA
GAAATGGAGAAAGAAAGAAAGCAAGAAAAAGAAAAGAACTTGAACGGCAAAAAAAAAAAA
AAAAAGTACTGCCCCCATGAGGAAAGCTCTTCCAAAAAAGACTGACCCCTTCCCTGCCTT
TTCCTGNAATAAAGAACAGCTTGACAGCAAAAAAAAAAAAAAAAAAAAAGT

Sequence 3828

CNGGCGAATTGGATTTTCCCGCGGTGNCGGCCGCTTCGACCAACATGTGNTNAGCATTCC
ACGGGCGCATGAAGTCTGGGTGNTNTGCTCGAGTCTCTGAATATTTTGATAGGAAGCGAC
AAGAAAATTCAAACTGCTCTTTGCTGACTACTGGAAAGTGAAAAGATGCTCAAGTTTACA
TTCAAAGAAACCATAGGCATTTCAAAAACCTCTTTCTAAACTTTGGTTTAAAAAAAATCA
GTTCACCACAAACAGAAATATAAATCGAGGCTGTAGCCAGCTGCTGGTCATGTCCTTGGC
AGTCTTTTGTGCAAAATAAGGCATATTTGAGCTCCACATTAACCTTGCGGCAGGCGTCTA
CTTGCTCTGCATGCTGTAGCAAGTGCACGTCCTCCTTCCCCTTGGTGGTGTAAGCCTGGG
AGAGGCTGCCCATACTTATCCACACACCAGCAGAAGCCCCGCTTCCTGCCTTTGGAAGGG
CGACACCGCTTTTTCTTATAAAAANCCTTCTTGNCACAAGTTGGGAATGTGTACCTGGCC

Sequence 3829

CGCCCGGCAGGTACCTCAAAGCTGCAAGTCAGATTCTGATATTGAAAGATGGTAAAATGG
TGCAGAAGGGGACTTACACTGAGTTCCTAAAATCTGGTATAGATTTTGGCTCCCTTTTAA
AGAAGGATAATGAGGAAAGTGAACAACTCCAGTTCCAGGAACTCCCACACTAAGGAATCG
TACGCGGGGGGTTCCGGGCGTTACCATCGTCCGTGCGCACCGCCCGGCGTCCAGATTTGG

Table 1

CAATTCTTCGCTGAAGTCATCATGAGCTTTTTCCAACTCCTGATGAAAAGGAAGGAACTC
ATTCCCTTGGTGGTGTTCATGACTGTGGCGGCGGGTGGAGCCTCATCTTTCGCTGTGTAT
TCTCTTTGGAAAACCGATGTGATCCTTGATCGGAAAAAAAAAAAANAAANAAAAAANANG
TNCCT

Sequence 3830

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGACTCCAAGTAAA
GCTCCAGTGACTAATATGTATAAATGTTAAATGATATTAAATATGAACATCAGAATTACT
TTGAAGGCTACTATTAATATGCAGACTTACTTTTAATCATTTGAATATCTGAACTCATTT
CTATTTCTTGCCAATTACTCACTTGGGTATTTACTGCGTAATCTGGAACATTTAGCTAAA
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ACCAAAGAGCAGTGTTTAAAAGGAGAGCTTCTATACAAAACCTATTCCTGGCGTTACTTT
TCATACAATTTTTGTTCTGTTTTACCTGGAAATAATTTACCAAAATAACTGAGTGTTGCT
GCTAAAGAACAAAAGTGGGGAGGTATCAGGGAACAAGAAAACAAGAAAGGGTATGATCAA
TCATTTTCTTCTGCTCCAAACAGCTGGAGTAAAATTCATGGGAAATGGCCCTTCATTTAA
AAAAAGATGTACCTCGGCCGCTCTAGAACTAG

Sequence 3831

CCGCGGTGGCGGCCGAGGTACAGCATATGGAGGTCAGGAAGGCTATTTGCAGCACATGTG
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TTCCAAGTATGAANGGACACAGACGATCTCCTTTGAAATTCCACAGGACAATACAGGCGC
CCCAGCTGTTCTTCATAGAGCGACAGTGCTTCTGTCAGATTGACACAGTTCCCCTAAATC
AAAGAGAGATAAGCAAATGGGATTCTTGAGTCCTTCCAAGGGCCCCACTCATCTGAAGGT
CTTTAATAAAGGAGAACAATTCTAGCTTTAGATAAAAGTTCATCTTTAA

Sequence 3832

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAAAGTTATAATTTTAATGCT
TTTCACATCCATGCTGAAAATCTGCAATTTGGTAAAAATGAAAGGAACATAAATTTTTCC
AAAGGAATTTTTCACGCCATTATATATACACTTCATGAGAAAGTTTCAAACACTTTCTCA
ATGATCACGAGTTACCAAGAAAATAAAAGATTAAATTTGTACTTTTTTTTTTTTTTTTTT
TTGTAACTGAAGCTTTATCTTGGAGNGGGAGGGGGGNTTGTGNNNCCAGNTGGGGCACCC
AAAGACAACCATGCTCTCGGTGAAGGCGCCCGAGGTCCTGGCATTGNTTCTGGNTCTCTT
CGNCTTGGCATT

Sequence 3833

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TGATCCTCCTGCCTTGGCCTCCCAAAGTGCTGGTGTTACAGGTGTGAGCCACCACACCTG
GCCAACATGTGGCTTTCAAGTTCTTACTTGAAGACAGCTGCTCTAGCTAGAAACTTTCTA
TCGGGATTCTGAGCCCGCTGGGNAANGGCATTACCTTCCCCACCCCCAAGAACACTTCTT
GGGAAGTTNCNCNCAATNCATNAACTTCAATTTCAAACAGTTGCTTGGTCCCACTAGCCA
TGAAGCTGGATGGGGACGTAATATTCTATCTGGGGGTTTGTCATGGGCCAAATTAACATT
TTGAGAATTCTGTTANGGAAGATGAAGAATTGGATAATGGGCACCTTAACAGTGGTCTGT
CAAGAGTTGACATACATTGGNGTATCTNCTGCACCAAAGCATTT

Sequence 3834

GAGGTACTTTNATTCCAGTTTAATGACCTAGACAGCCTTCTNCCTCCAAAATATACATGC
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TTTNTTTTTGACGCTTCCAGAGAACTTTAGAAAAGNTACTATTTGNGTTCCTTCTATAAT
CATTCCCCTNCCTAGGGAATNTCTNTTTTGNTANCTNGNACTATAATGAAGATGNTTTNG
GATCTTGCNTTTGGCANATTTTANAAACNGGNTCCCCAAAAAAGAATATTTNGGTTCCTT
TTAAGGGGGGGGGTTTT

Sequence 3835

CCGCGGTGGCGGCCGCCCGGGCAGGTACCCCAGCTGATGATGTTCCACAAAAGAGCAAAA
CATACACAATCTGGTTCCAGTCTACAGAAATCCTGGAACTGGACTACAAAGGGAATAGAC
AGGGTGTGGCAGGAGGGGGTTCCTCACGGTTGGAGTGCGAGGTTAGGGACAGGAATAGAA
GGTAGGTAATAAACATTCATGTGGTATTAACTTAGGGCAGATGTGTCAATATATTTCCAA
GTTTAGCATAATATAGGTATAAAAATTAAATAAAAAGTTTATATGTGTGTGTATTATTGG
GGGTTAATACACAACACATACCTCCTTAGAGGTCATTCCTGGAGGGGGGTTCTACAAGGA
AAAGACAGGCAAATTAACAAAAAATACACCCAGAATCAAGATTTGAGTTTTTGGGTTCCT
TTNATAGCAGAATGG

Sequence 3836

Table 1

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTNGC
AAGTCTTCACAAAATTTTATATTCCCCAAGGCCGGGCCCATCACAATGCCTGTGAANCTT
GACTGGCAAACACTGAGGCCTGAAGCTTGGGGGCTGCAGGGGGTCACTGGCTCACCCGGT
CCCCCCGTAATCTGTAAAACATACTGGGTGAGGNAGGCTGCTGNACNACCTGAATTCTCC
CTTCTCNNNGNCAGTACNGAGGNANATNCCTGTTGANNANTNNNCCCATTNAAGANCATT
NNANACCCANNNNNNAANNNTNAAACNCTNAAGNNAAAAAAGNAAANNNNTTTCCGNNCC
CNNATNTNGAAACCANAAAAAANTNTCTCNNCTTNNAAAANNNANNAAAAAAAAA
Sequence 3837
CTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGGGCCTGATGCCTCAAGCCTG
TAATCCTAGCACTTTGGGAGGCAGAGGCGGGCAGATCACTTGAGGTCAGGAGTTCAAGAC
CAGCCTGGCCAACACGGTGAAACCCCATCTCTCTAAAAATACAAAAATTAGCTGGGCGTG
GTGGCACACGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCTGGAGAATCATTTGAACC
TGGGAGGGGGAGGTTGCCGTGAGCTGAGCTTGCACCATTGCACTCCAGCCTGGGCGACAA
GAGTGAAATTCCATCTCAAAAAACAAAAACAGATTGACAACAAAGACAGTTTCAGAAAAT
GACAGGGACTGGGCAAATTAACAAATGGTTTGTAAACATGNAATGTTCAGGAACTACTTG
ATGTACCTCGGCCCGCTCTAGAAACTAGGTGGGATCCCCCCGGGCTGCANGGAATTCGAT
ATCAAAGCTTATCGATACCCGTCCGACCTCGAGGGGGGGNCC
Sequence 3838
CGAATTGGAGCTCNCCGCGGNGGCGGCCGCCCGGGCAGGTACTGAATGAGTATTGCTTTT
GCACCATTGTGAAGTTGACAAATCTAAGACCATCATAAGTCGGGGACCATCTGTATACAC
AAATACACGTAAACACACATGTATTTTTTTTTTTTTTGAGACAAANGTCTTGCTCTGTCG
GCCAGGCTG
Sequence 3839
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GGAATATTTACAAATACATAATGAGATATCTTGAAGATGGGAACCAAGCCTAAACATAAA
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GCACCCTTTTTAAAAATGTTTATTGATACAGCCTCCCTATGTTTCCCAGACTGATCTCAA
ACTCCTGGCCTCAAGCAATCCTCCTGCCTCAGCCTCCCAAAGTGCTGGGACTACAGGCAT
GAAGCCACCACACCCGGCTAATTTATGTTTNATATACATCTTNGNAGTTATAACCC
Sequence 3840
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTGTNTTT
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CTCAAGCAATCCTCCTGCCTCCCAAAGTGCTGGGATTACAGGCATAAGCCATTGNGCCTG
GCCCTCTNGGTAATTTTGNATTACTGACCCATACTCTGCTCCTTGGCTATAAATTCCCAC
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ACATTTGTCTATATACCTGTCATAATGGCCCTGAATAAAGTCTTCCTTACTGTGCTTTAA
CAATTCTCATTGAATAATTTTTTTAAAC
Sequence 3841
GAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGCACTTTGTNTTTTTTNTTTTTTTTTTTT
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TGGGCAAATTAACAAATGTTTGTAAACATGAATGTTCAGGGAACTACTGATGTACCCTCG
GCCGCTCTTAGAACTAGTGGGATTCCCCCCGGGGCTGCAAGGGAAATTTNCGATATTCAA
G
Sequence 3842
ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTCCAAGCTCTGAGACCA
CCTNTTCTGCAAAGCCTTCCTGATTCTGCAAAGAACAGGNAGGCATTTCATCCTTGGGAC
CTCACAGCANTTCAGGACACATTTGTGTCCCAAGCCCTGCTTGGCTTGGCTGTCTNCATG
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TGTTTTTTGAATAAGTGACTATATCATCACCACATTTCAAATGCGGAATATATGANCTAC
TAGAAAAGACATANGGGTNGGATTTTACATCTTTATTGTATCCTAAGATATACAAGTCTA
TTACTGCCTTTTCCCATGTNTCTGCCAACATAAGCATAAAGAAGNGGGGATTTACCNGTT

Table 1

AGNAAATTGAATAAGCCGGCCCGCTTCTAGAACTAGTGGGGATCCCCCGGNCTGCAAGGA
ATTCCATATCNAGCNTATTGAAACCGTCGACTCCAGGGGGGGGCCCC
Sequence 3843
CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGGACTTTTTTTTTTTTTTTTT
TTTTTTCGGCTTCCAAAAGCTTTATTGGCAAATATGCTCTATAAAAGAATGATCAATCCT
GTTGCCTNTAAGTCAATGGAATGAAGAGCTGTGTCCAGGGACACACCACGCCGTGCTGAA
GGAGACTGCTGTTGNGTCCACCTNTTATTCATAGACCCAGTCATGAGCACAAGACTTGTA
GTCAACCAGTTCTTCAGGCTTAAACCACCCGCGTACTGGAAGCAGGAGGGAGCCCTGGCT
AGGGCAGGCCTTAAACGCAAGGGAAGCTGAGCAAGAGATCTGCACACTCAAC
Sequence 3844
ACTACTATAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGGGCATTTCTCCCAGGGATCT
CTGTGCTTCCTTTTGTGCTTCCTGTGTGTGTGGATATTTAAAGGGGCTGGAAATGTGCAA
AAACATGTCACTACTTAGACATTATATTGTCATCTTGCTGTTTCTAGTGATGTTAATTAT
CTCCATTTCAGCAGATGTGTGGCCTCAGATGGTAAAGTCAGCAGCCTTTCTTATTTCTCA
CCTGGAAATACATACGACCATTTGAGGAGACAAATGGCAAGGTGTCAGCATACCCTGAAC
TTGAGTTGAGAGCTACACACAATATTATTGGTTTCCGAGCATCACAAACACCCTCTCTGT
TTCTTCACTGGGCACAGGAATTTTAATACTTATTTCAGTGGGGCTGTTGGCAGGAACAAA
TGAAGCAATCTACATAAAGGCACTAGGNGCAGTGCCTGACACACACCATTCTCTTGGAGG
TCCCCTTAGGAGGATCCCACANGGTCATATGACTTCTTGGGG
Sequence 3845
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GCCCCCTCGCGATGGGCGGGCATCCTGTTTGAGGATATTTTCGATGTGAAGGATATTGAC
CCGGGAGGGCAAGAAGTTTGACCGAGTGTCTCGACTGCATTGTGAGAGTGAATCTTTCAA
GATGGATCTAATCTTAGATGTAAACATTCAAATTTACCCTGNAGACTTNGGGTGACNAGT
TTTCCGGGTTGGTCATAGCTAGGACCTTGCCCGGGCGGCCGCTCTAGAACTAGGG
Sequence 3846
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CAGGCTGAAACNATCCTCCCACCTTAGCNTCCCACATAGCTGGGACTACCAGATATGCCC
ACCATGACTAGCCTAATTTTTTGTANAANACAGGGTTCTCGCCATTGTTATGCCCAAGGT
CTTGGTTCTTCNAACTCACTGNGGCTCAAGAGNNAAATACCATCNTTNCCTTGGGGCCTC
CCCAAAANGTGNCNNGGGGTATATACCANGGGTNGTNGAAGCNCNCNAACGGCTCCAAGN
CCATATTTTTCTTTTTGAATTTTGGGGNTTCTTGTTNTGGACCCATTCATTGGNCAAAAT
TGACCAGNATTCATTCCAATTTCCATCAANGGGGAACAANTGGGGGGGGCCT
Sequence 3847
ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTTTT
TTTTTTTTTTTTTTTTTTGNTTTTTTTTTTTTTTTTTTTTTTTTNTNTTTTTACNCTTTGA
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GTTTTTATNTCCTAAAATAGGANTTAAATGACNTTCCCTCAAGTGACNNATTTTAATAGA
AACNCCNCCTCTTTCCTTT
Sequence 3848
ATTGGAGCTCCCCGCGGGGGCGGNCGCCCGGGCAGGTACTAAAAGCGGGCACCACCATGC
TTGGCTAATTTTCATATTTTTCATAGAGACGGGGTTCCACCATGTGGCCTTGCTTGGTCT
GAAAGTTCTGAGCTCAAGCAACCCACCTGCCTTAGCCTCTCAACGTCCTGGAATGACAGC
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CAGGGCATGCAGAACTATGGTGGCATTAACCGACACATTAACCAACTGCCTCACTTACTT
TTCTTTTGACTCAGTTTATAAATTTTCTTAATTTAAATTTTAATTTCAACATGTATACAT
CTTTGAAATAAATAAAATAAGCTCTTTGAATGTTTGACATAACGTAGAAGAAATTGACAA
ATGGACATCTTTACTTCATTTTCT
Sequence 3849
AAGGGCGAATTGGACTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTANCATGCTTTC
AACANTAAATTCTCTGACAAACCCTAAGTGTAACTCAGAAAAAAGCTACACTAACTAAAT
GCATGATTGAATTAACATAATCTNCCATAATCAAGAAAGTNTCCTAAAAGACTTTNCATT
TTTCCTTTGATAACCATTTATNGTCTATANATACNCTATGTGTCCATNTACTCCTAANNA

Table 1

AATNCCNAACTTTTTAAAAATTATTAACCANAGGCAGANNTTTTTTTCTGACAAATGGAG
AAATCTGGCCAGCAGTTANAGNAGTCTTTTATTTNANCTCAAAAAAGGGGGAATNCTNGG
TGGTTCNAAANAATTAATTGCAACATNCTCNTGGCCCANNTNTNTGGTTATTCTTATTGG
TTGGACCTTGGTAAA
Sequence 3850
ATAGGGCGAATTGGAGCTCCCCGCGGGGGCGGCCGAGGTACAGATTTGATTATGATTTTA
ATGTTTGAAAGATTGCACTTGTTTGCTTTTACTATATGNGGGGTAAAATATATTTTCTGT
TCACAGTATATGAAAATATGGAGTAATTTAAACAGTAAATAAACATTCTGTGGATGCTTA
TTTTTGTATTGACAAAGTATCAATTAAACTATATGTGTTCTTTTTCAAAAATGCTGGATC
CATTCATGATTGGTTCAAATATCTAATTATTTCCTCAACTTAAATTTGCTTTTTAAATTG
CTTAATATGTAGGGGTAGGTTACCAAATGATAGTTGGATAAGGAATCATTTANTTATCAA
GAGCTTCANAGGGGTCATCTGCTTTCCACCAAGGAAGTTTAAGCATTATGGGNTCATTAC
NTGATTTTGCTTGAANAATT
Sequence 3851
CCTATAGGGCGNANTGGANCTCCCCGGGGGGGNGGNCGNGNCACTAAATGCATCCTCCAT
TNCNTATTTTTTNTCTTTTCTAAATATCAACGGGATGGGNGGATACCANCTTACTGGGNA
GTTCTAAAACTTTTGCTTTCTTTCAAAAACTTTNCAGAAACATATATCCATTCTATAATT
GTGATAGATNGGAAGAAATATTTCCCTTANGAAATTTTGNAAAGGAATACTTCCACTCTT
TTGTATGTAACATATGATAAACGATAAAAACCCAAGTTCAGGCCATTATTATCATCTTGA
TCAAAAATAT
Sequence 3852
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATATTT
ACTGTTTCTCTCAACTTTAAGAACTCTAGTCTCACTTCAGATATATTATACAAATCCTAA
TCAAGAAAAAAAAAAAATCAATGGATTTTCACTTTTAAAAATCTTTCTTCCCTCTCCTTTT
AGGAAACGCAGAAAAACTAAGCTTTCTTTCAATACCAACACCAACAATGGGCTTTCAATA
CCATAAGCACATCAGGGGAATTAAACTCTTCCATGGCAGAAAGAGGAGATAATTTAAAAT
GAAACCTCAGCCTACTCCTCATAGTCTACCTTAAATAGTTATACTATGTTTTTAAAAAGC
AAGTTATTACTTTAGTAACCATTTAAAAGGAAAGTAACTAGAACTATTTTGTTATAAAGC
ATAGCTAAGAAAACAAAAATGTCCCAATCATTATATTAACTTACAAAAGCATACTAA
Sequence 3853
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATCCACGTCACT
GGGCACCTGGCCNAACNTGGCCAGGTAGGGCTCGTAGATGACCGAACGGAATATCCACCT
CCAGCGCTGCTCATTCTGCCTAAGGATCCCTTGCCTGGCCACCGCCAAAGGCCACCATCC
ACACCGCANAGAGGAACAGGAAGAAGAACACATCGATCAGCATCCTCTGCAGCATTATAA
TCTTGGGTCCTAAGTTTCTGCTTACAGTAAAAATGTGGATCAATCTTAGAGTGAAAATAA
TGTAGTCCAGACAGAAAATGACTCGTCCAGAATACAAAGAGCTTTTATTAGAAGAGTGGG
AGCCGAAANACAATTTCCTGCTATGAAGTAAAAAAGCCCCAGCGTGTCCATCACATTTCC
ACAGGGTCAGTAAAAATAATTCACCCCCATTTAACGTNCCTTCGGGCCGCTTCTTAAACT
NAGGGGGANTCCCCCCNGGGCCTGGCANGGAAATTCCANNTTTAAGCTTNTTCNATNCCC
CNGCCGGANCCTTGGGGGGGGGGGGCCCCN
Sequence 3854
CCGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCATGGTACAAGAAGCACTATA
TAGCTCATTNACNCATTAACTCCAATCTTGCTTTGCATAAATATGGCATTTCAGAAGTCA
AGCATACAAAATACTTTCCTTAGAGAAATAAAAATATATGTAAAAGCCAGACAGGCCAAC
AGGGCGATCACATTCCTCAGAACCGCATTGTCCAATTCAATAACCATCATTCACATGTGG
CAATTAAACACATGAAATGTGGCTTGTCCAAACTGAAATGTGCTGTAAATGTTAAATAGA
CACTAGGTTTCAAAGATCTTGTACCT
Sequence 3855
AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTAGTTTA
TACAACTCCATTAAAGAAACTTCCAAGGTCTGGTTTGCCACATGCTATATAGTCTGAATG
TTAGTATCTTCCCAAAATTCATAGGTTGAAAATCTAACACTCAAGGTGACGGTNTTAGGA
GGTGAGGACTTTGGGAGGNGATTAGGTCATAAAGGCAGAGCCCTCATGAATGGAATTAGT
GCCCTTATAAAAGAGGCCTGATAGAGACCCCCTAGCTCCTTCTACCAGGACATAGGNAGA
AGGNGCCATCTATGAACCAGAAAGCAGATCCTCACCCCTCACCAGACACCAAATCTGCCA
GNGCCTTGAGTTCGGACTTCCTAGCCNCTAGAACTGTGAGAAATTTCTGGTATTTACAAA
CTACCCAATTNATGATTT
Sequence 3856

Table 1

CCGCGGTGGCGGCCGGCCTNACACACAGNGCCACCTGCCACCTCTAGANTTNTTNTTGCA
CAGGAAAGAAGNTNCTTTTAATGGAGCCCANGTGCTATGAGTCTCTGNTATAGCAGGCTG
AGCCANGAAGTGCGGGCTAACNTNTGATNCCNTGCCCTATNTCTTCTTCTCTCANCTCNG
AGGCTGANACCTTAAATCNNANAGGAGGTACGATTTACTAGTCTCTGAATCATTTATTNC
NTACTTCTTAATTTGAGACAANAGGTCTTGCTATATCACCCAGTCTAGACTTTGAACTCC
TGGGT

Sequence 3857

NCGGCACGGTTACTAACGGATTTTCCGAGCTTAAGCCTCTCACGAAGCGGGAATGGGTTG
TCTTCTGGCCTCAGAGTATCCCTTATCAGAGCCTTGGGCCCCTGGGCCCCTTCACTCAAT
ACTTGGTGGACCACCATNACACCCTCCTGCACAATGGTTATTGGCTTGCCTGGCTGATTC
ATGTGGGAGAGTCCTTGTATGCCTTAGTATTGNGCAAGCATAAAGGCATCACAAGTGGTC
AGGCTCAGCTACTCTGGTTNCTACAGACTTTCTTNTTTGGGATAGCATCTCTCACCATCT
TGATTGCTTACAAACAGAAGCACCAAAAGTAAACTTGAAAGATGTCTGAANAAAAAAAAA
ANTTTTTTTNGGANAANAANNGTNNANAAAAAAAANNNGGGGGGGNGGGNCCCCNNNNTT
NNNNNAAAAAAAANNCCCCCCCCCCCCCCCCCNGGGGGNGGAAAAAAA

Sequence 3858

NCAGCCTGCTCCCTTCCCTCAGAGCCGTNCAGGACCAGGAACTATNCCTAGCATTTGGCA
TATATGTGCAGGAGTGCCAGCTTCCTCTCTCTTCAGTCTCAATNTCTGTGCTGCCTCACT
ATTGACACTTGGNGTTTTATCTCCAGAGATCTGCTTAAAGTATGTNTGGTGTATTCAATA
TTCTGNTATCTTTCAGTGGAGATAAAAACACCAAGNGTCAAAAGTGCGG

Sequence 3859

NCTCTCAACCTTCTGAGGAATCTCGTGGTGTTGATTATTCTGGGTTGCGACTGTATCCTC
TGNTTCTCTTTTTATAGGCTCCTAACGTTNGNATTACGTTNTCCCTATTAACTAAAGTTC
TACCCGTTACTTTAAATAAGAAAGTTCGTTCTTTTCACCTTCCTTTTACAGCCAGATTTT
TCAAACCAGTGTTGCAGGTGGGTAGGCAGATATGGTTGCTGGCAGGAGCTTGTGAAAATG
AAGCAGGGTTTCAGCTGATGAGTGAGGAGG

Sequence 3860

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTACTTTTTTTTTTT
TTAAAAAAACCTTGAGCTCTTAAGGATTAATGCTCTTGAGTTATGAGATATCCC

Sequence 3861

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTTTTTNCCTTTCTAGGGTCNAAAGTCAGGCAATAAATACAANAATATTTGGAAGTTTT
TATTTTTATCATACAATGANACTATCTTTCCTACCTTGGCTTCCTAGTATAAAAAGCTAT
TTGAAAATTTATATTCAATGTAATTTTTGTTGAGGCCTTTATTGGAAAAAAAATTGTANC
ATTTTTTTGAGGAANAAAAACNCATAATGTGAACAGAGCTATAACTGCTGAATTAAANAA
AAACTATGTNGCATTTATTTNTTANNAAAANATTTTGCAAGAAAGGTNTGAGGCCCCACT
TAGGTCCNCCNTGCAAGTCAACACATCCTGGGTNTTGCTCCNACTTGANCTCCTNATGGN
CCCCTTGCTTGACAAAAAAAT

Sequence 3862

CCGCGGTGGCGGCCGAGGTACTCTTTGTTTTGGCACACTTTTCCTGACANNCAGCCAGTG
TTCTCAACACATAAATACTAGTCCACGTTAACAACAATAGCATATGAGACCGCTCTCCGT
AAAGATGCCAGATTGGATGCAAATGGACTGGAAATACCTTGGAGGGTTTCACAAAAATAA
GACAAAGGGCAAAGGAACTTTGCCAAAGGAGATGGAGAGCAATTCTTTAAAGTTAGTGGG
AGGGAGGAAGCAAAGAGCTCATAAATACAAGCCTCTTAAAATGGGACGCATTTGCCTCGC
GCCTACTGGGTGTCTGCAGCTCAGCTTGGTGCCCCACACAGGACACCGACTTTAAGTGGC
TGCCTTTGCAAGGCTGANGAGGCCTTGAGGGTTGATGCCTGAAAGTGTCAGCGCCATCTT
AGTGGAAAACA

Sequence 3863

CCGCGGTGGCGGCCGAGGTACTTACGGAGTGACAAAGGGAAAAGTNTGCTTTGAGGCAAA
GGTAACCCAGAATCTCCCAATGAAAGAAGGCTGCACAGAGGCCTCTCTCCTTCGAGTTGG
GTGGTCTGTTGATTTTTCCCGTCCACAGCTTGGTGAAGATGAATTCTCTTACGGTTTCGA
TGGACGAGGACTCAAGGCAGAAAATGGACAATTTGAGGAATTTGGCCAGACTTTTGGGGA
GAATGATGTTATTGGCTGCTTTGCTAATTTTGAGACTGAAGAAGTAGAACTTTCCTTCTC
CAAGAATGGGAGAAGACCNTAGGTGTGGCATTCTGGATCAGC

Sequence 3864

NGGCCGCCCGGGCAGGTACCGTGGCCAGGGTCAGATNGTGCAGAAGGTTANGGTGCAGCC
CANNAACCTNATCTTCAGANACTTACAAAATANANCGCGGATTCAAGGTGNGGCNCTATG

Table 1

AGCAAGTTGAATATGCGCGANAGAAGGCTGNCATCANNTGGTTCTGGATGAGTATATNAA
CCCTTGTATNAGGATGNAACGCAGTAAGCAGANTTCATTCCTAAAAACCAANAGTTCAAA
GCAANAACNAAACTTGGGGGTNCTGNGATTCAATNGCCTAAAAAANGGGANGNANTGACT
TNNCACCNTCNAAGCNTACCAAAAAGTAGTCCTTCCCCAAACCTA

Sequence 3865

NTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAATTTGGGTTCTATATTT
TGTCANTCAGTTGGGTTTTTAAAAAAATTCAAAACTCATGCATGTTACCTACTTGTCATG
TGTGAATTATTTCTCACAATTTTAATTAATCTGTGTGTATATTAGTTATATAAAGCAATG
GATTTCCACATTCTTAAAGCAGGAACCTATATTCACCAGAAAAGGATCCTCCTGTTTCTC
ATCAAATTTTTTTTCAGCTCGAACAATCCAAGATTGGGAATAGTAAGAGTGGCAAACAAA
TGTTTTCTTAGGGACTTACTGAGAAAAGAAAAAACTTACTGGGGAGAACAGGAGACCTTA
GTAAAATTT

Sequence 3866

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTTTGTTCTTTATCTGGAGAGATTCCCTCAACTTTATTTTCCAGACTGTATACCAAA
TACTTTTAGCAGTCTTATTTTATTTTCAAAGAGATCTTCTTATTCTCAGTCTTCTCTTTC
TTTTCTTGCTTTTTAAGANACAGGGTCTCACTCTGTCCCCCAGGCTGGAGTGCAGTGGCA
CCATCATGGCTCACTGAAGCCTTGAACTCCTGGGCTCAAGTGATCTTCCCACTTCAGCCT
CCCAAGTAGCTAGGACCACAGGCACATGCCACCATGCTTGGCTAATTTTTAAAA

Sequence 3867

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTGGTANAAATGGGCT
CTCAACCTGTTGCCCAGGCTGGTCTCAAACTCCTGGACTCAAGTAATCCACCTGCCTCAG
TCTCACACAGTGCTGGGATTACAGGTGTGAGCCCTGGCACCCGGCCTGCAGGCACTTTTT
ATGGAATTGTATTACATGTATAGTAGGGACATTGCCATCTTGGCATGTCTATTTATTCAG
GTTTATTTTTGTGTCTGTCGGAAGTGTTTAAAGTTTCTCCTATGAAGGTATTGCATATCT
CTTGTTGAAGTTTATTCCTANGGGTTTTA

Sequence 3868

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCCATTTTTCATCTGCGACACAGAAGGCGG
GGGTTGCCTCTGATCCTTTTGTTATTTGGGGCATGGAAAGTTTGGGTTTTCCTTTTGATT
CAGTTCCAGGAAGTCAGCATTAATCACCCTTAGGTTTCTTGCCTCCATACCCTGTTCTCA
TACCTCATTTCCCCCCGAAAGACATGATCCTCATAAATCTTTATGGGAGGTAAAGGGATT
GATAGTCTTTCTTCTGTAACTGCTTTATGCTGACCTGAGGCACAGTCCCTACNTACCT

Sequence 3869

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGTTACTTTTTTTTTTTTTTT
TTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTNGNAANAAAAANCCCCCNAAATTNATTNAN
CTAAAACNTTNCCCCNGATNNAAANAAAAANANGGCAAAAAATACCTAGCATATNTGCNN
AAGCCCCCNCTCCAANGAACCCAAAAAACCNGGAAAAAAAAAAANGNNAAAGTTTTTNNCN
AACTNAAAAAAATNNTTTTCNCNTTTTNNAAAAAAAGTTTTACNAGGGCACNNATAAANN
NTTTTTTTTTTTTTTTGNGGGGGCAATTTNGNGGCCTCAAAAAAAAAAAAAAAATTTTTTNN
TNCCCCCCCCCCCCCCCCCCCNGGGGGGCTNNGTTTTTTTNTTTNNTCCNNNNCNNNAAA
AAGNGGGGGGGGGNGTTTTTNNANNGGNGGGGGGGNANAAAAAAAAA

Sequence 3870

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAAAAAAAAA
ATACTTTTCTTANTTTCCAGATATGGTCTAAATGTTTTATNATCCATAATGATCTAAACT
AATAAGATTCACCAAAAAGTAAAAATTCAATTTTACAATATACATTTTTTTTTTAACTAT
TTGGCTTTACCTTTTTACCTTGGTTCTCCTTACTGAAGTCCTCTTGCTTTCACTTTGATC
TGGTTTTTGAAGTCTCTTAATTATTGGCTGGGCATGGNGACTCATGCCTGTAATCCCGGC
ACTTTGGGAGGCCAAGGGAGGTGATCACTTGAGCCCAGGAGTAAANACCAGCCT

Sequence 3871

CCGGGCAGGTACACGANAAGCTCCGAGGATGGCTGAAGTCCAACGTCTNTGATGCGGTGG
CTCATAGCACCCGTATCATTTATGGAGGCTCTTGTGACTGGGGCAACCCTGCAANGGAAG
CTTGGCCAGCCCAGCCCTGATGTGGATGGGTTTCCTTGTGGGTGGTGCTTCCCTCAAGCC
CGAATTCGTGGGACATTCATCAATGCCAAAACCAAATGNAGCCCCCATTCCATTCTTTCC
CTACCCTTTCCTGCCAAAGTCCAGGTGACTAATTCANNCCCCAAGAANGCCCCANNTTAA
ACTGGCGCCCTTTTCCCNTGCAATATTGCCTTTCTGGATNGGGTGGTCAACCCTTGGCTT
CCTTTTCCTTGGTNGGGCCCTTTTATTCCCAAAACTGNNNATTCTTTTNCCTTTTAACTT
GGNTTTAATTATTCTTTTCCACCCCCTNNTAAAATTNGGGTTTTGGGGGAACCCCAAAGA

Table 1

577/863

GCGCAANATACCCCCTTTTCTTTCCCNACCTTTAACCTTNATTAAAANTGGGGTTTTGGG
GA
Sequence 3872
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTAAACTTG
GCTAANTTGCCCTTTATTAACGAAAACATANAGCTTTCGGTCAATTCCACCACGGANAAC
ACAAACCANAAATAAAAACCCACACCAAGGGCTATTTCCCAAGCTGGGGAATTTGAGAAC
ACACGGGCANAGTTCACGCCACACAACTACACTGGGCTCGTCCTTGGGAGGCGTTCACAG
GAAGCAATCACGAGCGCCAAGCCACCCACAAGGCANTGCGGCAAGGCTCCCGGGATCCTT
ACAGGCATCCAAGCGAGGTACCT
Sequence 3873
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTATTTTCTAACAGG
AATTTGCTATTTCAAATATATTATCTGAGATATCTATATATTTATATTTTGAGATACTAT
ACAAATTTGAGCCAATGACATAGAATTTTACAAATCAAGAAGCTTATTCTGGGGCCATTT
CTTTTGACGTTTTCTCTAAACTATTAAAGAGGCATTAATGATCCATAAATTATATTATCT
ACATTTACAGCATTTAAAATGTGTTCAGCATGAAATATTAGCTACAGGGGAAGCTAAATA
AATTAAACATGGAATAAAGATTTGTCCTTAAATATAATCTACAAGAAGACTTTGATATTT
GTTTTTCACAAGTGAAGCATTCTTATAAAGTGTCATAACCTTTTTGGGGAAACTATGGGA
AAAAATGGGGAAACTCTGAAGGGTTTTAAGTAT
Sequence 3874
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CAGGCACATCACATGGTGAAAGTGGGAACAAAGAGAAGGGTGGAGGTGCCACACACTTTT
AAACAACCAGGTCAGGTGTGAACTCACTCATCGCCAAGAAGACGGCACTAAGCCATTCAT
GAGGGATCCGTCCTGTCCCCATGATCAAAACACCTCCCACCAGGCCCCACCTCTGACACT
GGGGATCACATTTCAACATGAGATTTGGAGGGGACAAATATCCAAAACATATCAATATGT
TTCACTATGGAAACTTTACAAGTTTCAGTCCCAAGATGGCTGCAGAGGCTCCAAGTATCA
CATTCACCCACAATAATTGGCTAAAGACTGAAAGGAGGGGAAAAGGGATNTTTCCTTTTC
C
Sequence 3875
CCGCGGTGGCGGCCGCCCGGGCAGGTACAGTGGCACGATCTCGGCTCACTGCAACCTGCG
CCTCCTGGGTTCAGGCGATTCTCTTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCAC
CCATCACCATGTCCAGCTAATTTTTGTATTTTTAGTAGAGACAGGGTTTTCCCATGTTGG
CCAGGCTGGTCTCGATCTCCTGACCTCAAATGATCCGCCCACCTTGGCCTNCCAAAGTGC
TGGGATGACAGTTGTGAGCCACCACACTCAGCCTGCTCTTTCTAATATTTTGAAACTTGT
TAGACAATTTGCTACCCATCTAATGTGATATTTTAGGAATCCAATATGCATGGGTTATTA
TTTTCTTAAAAAAAATATTCTTTTACCTGTCACCTGAATTTAGTA
Sequence 3876
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTT
TTTTTTTGAGTAATCTTTTTATCTCTTCCAGGCACAGGACTGATGCAGCCTGAAATCANA
CATAAAACCAAATCCTGCAGGTTGCTGAATTACAACGCAGGTTGAATTCATAGGATCTCC
AGGTCTCATATGCAAAAACATGGCTACTGATTAGGGAACAATGGGACCTTGAGACTAGGA
ATAGGAACATCAGGATTGATTTGGATAGATCTGAGCACCCTAAACCCCAACCCTCACTGA
GTTTCCCCTGGCAGCANAAGCAGCCCTTTTTCCCCAGTCTATGGGGCTGGTCCTGCCTGA
CTTGGGGACCCTCTCACTGTTAGGCTAACCTT
Sequence 3877
GGCGAATTTTAGCTCCCCGCGGTGGCGGCCGCCCGGGCANGTACGCTTCCCTTGGCACCA
TGTTATTNCATCTGTGCTGGGCTGAATAGTGTCCCCCCAAAATTGAATAATGTCCCCCCA
AAATTCGTGTATACCCTGAACATTAGAATGTGATCTTACTTGGTATTACTTGGTATAGGG
TGTTGTAGAAATAATCAAATAAAGATGAGGTCATACTGCATCAGGGTAGACCCTAAATTC
AATGACCAGGATTTTTATAAGTGAAAGGAGAGGCGGATTCAGAGAAAAAGACACAGACAC
ACACAGAGAGAAGACAGCCATGTGAAGACACAAGCATAAATTGAAGTGACACAGNTACAA
GCCAAGGAATGCCAAAAATTGCTGGTAACCACCAGAAGTNGGAAGAGGCAAAGGGGAATT
T
Sequence 3878
CCGGCAGGGACTTTTTTTTTTTTTTTTTTTTTTAATACATTCTAATTAACAGTCAACATAC
AGTCCTTGCTGGCTACAGAAAAAAATGGANACTTTTAGNCCATCACCTTGNGGNCTATTC
CTTCATGCTAAA

Table 1

Sequence 3879
AATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATACAAGTCATCCATTAAAA
CAANGAANNNGAATATAGAGTGCCAGCAGCAACTTAGTATTTTCTAAAAAGAACATTTAT
TATTTATTTTTAGCCTGTCATTTTAATTCTTCAAGAGATTTTACTGCTGGTATTTTTTAA
TGCACTCCTCTTTGTAATTTCATTCAAGCCATTTGTCTAAAGTCATTTCTTTGTTTTTTG
GGAGATGGAGTCTTGCTCTGTTGCCCAGGCTGGAATGCAGTGGCCGTGATCTCGGCTCAC
TGCAACCTCCACCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTATCTGGG
ATTACAGGCGTGCACCACCATGCCTGGCT
Sequence 3880
CCGCGGTGGCGGCCGAGGTACTCTTTCCCTTTATTTCTCAGACTGGCCGACACTTAGGGA
AAATAGAAAGAACCTATGTTGAAATATTGGGGGCGGGTTCCCCCGATACTTTTGGACATA
TATCCAGTAGTGGGACTGCTGGATCATATAGAAGTTCTATTTTTAGTTTTCTCACAAACC
TCCATACTGTTTTCCATAATGGCTAAACTAATTTACATTCCTACCAACAGTATATATAAG
TTCCTCTTCTCTGCGTCTTTGCCAGCATTTGTTATTTTTTGTCTTTTTGATAATAGCCAG
TCTAACTGAAGTGTCATGGAGAAACTCCAGCTGGGCCCAGAGATTCTGCAGCGGGAAAAT
CCAAGGCTTATTTATGCCAGGCT
Sequence 3881
CCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTNGGGGG
AAAGTAATGCTTTAAGGAGGAAGCTNCATATGAATAAATTGAAAGTGTCTTTCTAAGGCA
ACTGTGAAACCTCCAAAACAGGAACTTCTTTATAACAAGAACATTCTAAAAAANGGTCAG
TATATGCTTGACTGGGCCTTAA
Sequence 3882
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGTGATGATTTTCAGTG
TAACCNTTTACGTAATGATTCTGCCAAATGAAATATAATGATATCACTGTAAAACCGTTC
CATTTTGATTCTGAGGTTACTCTACTAACAAGCATCACATATTTGTATTTTGCCCTGATT
AATATGTTGGCTTCGCTTTCAGGGTTTTTAATGACCACAACAAGCAAGCATGCAGCTTAC
TGCTTGAAAGGTGAGGATTGGAAATGTTGGGACTATTATAATTGCAGAATACATGATGAT
CTCAATCCAACTTGAACTCTCTCACTGATTACTTGATGACAATAAAATATCTGATATTCT
GCATTCCCATGTAGCATTTTAATTGAAGTCTGTAAATGTGGCTAAAAGTCTTGTCTTATT
TT
Sequence 3883
CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTT
GAGTTTTNTTTTTATCTCTTCCAGGCACAGGACTGATGCAGCCTGAAATCAGACATAAAN
CCAAATCCTGCAGGTTGCTGAATTACAACGCAGGTTGAATTCATAGGATCTCCAGGTCTC
ATATGCAAAAACATGGCTACTGATTAGGGAACANTGGGACCTTGAGACTAGGAATAGGAA
CATCAGGATTGATTTGGATAGATCTGAGCACCCTAAACCCCAACCCTCACTGAGTTTCCC
CTGGCATCANAAGCAGCCNTTNTTCCCCANANNNATGGGGCTGGC
Sequence 3884
CCGGGCAGGTACTTTTTNTTTTTGTTTTTTTTTTTTGATTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTNNTCNGCTCANTTCTTTATNGATNGGGGTGCCGTTTTCTNTGGAAGCCT
CTTAANAAAANAACACAGNGGCCCAGGCTGGGNGGAGCCCNCCCCCCATNAAATNCCT
Sequence 3885
GACTTTTTTCTTTTTTTTTTTTTTTTTTTAAGAATGTTTTTATGGCCGGGATGGTGGCTC
ATGCCTGTAATCCCAGCACTTTCAGAGGCCAAGGNGGGAGGATCACCTGAGGCCAGAAGT
TTGAGAGCAGCCTGAGCAACATAGTAAGATGCTGTCTTTATTTAAAAAAAAAGATCTTCT
AGAGAGATCTAGTAAAATATTTTATAGATGATACAATTGGATTCTAAGGTTGGTTTCAGA
ATCATCTTGGGGAGAAGATGGGCAGGAATGTANTAGAGGTAAGTATGGCCATGAAT
Sequence 3886
GGGCGAATTTAGCTCCCCGCNNTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTT
NTTTTTTTTNCTTCCGAAACTTCTTCAGGGGCCTGNTCACATCCAACAGAACTATCACTC
CAAGAGNGATGTTTCTCTCCAGTAAGTTGGATATAAATGTCAAGCAGGNGATCAACCACT
GCCAATAGGCTAGGATATCTGCTCTGAANAACCNCATTCAGTTCTCTCTTGNCCAGGTTA
TCCAGGNGAATTTTGGTCCAATATTTGTCTAGCAAAGTAGCATGACTGNTTAGCGGGCGA
TACCAATTTCCTCCACAGCTCAAGAGTCTCCTGGNTGCAAAAAACTGAAATCCAGGGGCC
ACTTTCAGACAGGCACCTNGGCCGNTNTAAAACTAGGGGATCCCCCCGGGCNNNAGGAAN
TTNGAAATTNAAAGNTTTATTCGAATACCCGCNCGNACCCCTCNNAGGGGGGGGGG
Sequence 3887

Table 1

ATANGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTGAGACGGACTTTTGCTCTTTTGCCCANACTGGAGTGCAGNGGCGCAATCTCGGG
TCACTGCAAGCTCTGCCTCCTGGGTTCATGCCATTTTCCTGCCTCAGCCTCCTGAGTAGC
TGGGACCACAGGAGTGCACAATTACACTCGGCTAATTTTTTGTAGTTTTGGNGGANACAG
GGTTTCACCATGTTGCCCAGGCTGGTCTTGAATTCCTGAGCTCAAGNGATCCGCCTGCCT
TGGCCTCCCAAAGTGCTGGGGATTGCAANGCGTGAGCCACCACGCCCGCCTGGCCTGCTN
TTGGNGCTTTACATTTATGGACTTATTTTTTCTGAACCCCGNGTNCCTTCCCGGGGCGGG
CCGNTTTAAAACTANGGGGGGATCCCCCCGGGGCTGNNANGAAAATTTCCAATNTCAAAA
CTTTATTCGGATTNCCCCNTCCGAACCCTCGGNGGGGGGGGGGG
Sequence 3888
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCAGGTACTCCATG
TTGGTTGGTAGTATTTTAAATCTGAAGCATTTTCAGAGNGCTAAGGCAATTCAGACTGCA
CAGCTGTCAACTCAGGAGTCCCATTAAACTGACTCTAAAAATTCCTAAAAGAAGGCATGA
TTTATTATAAGCAAATGGCTAACCTGGCTTTTTTGGTAATAGAATTCCAAATGAAAATAA
AATTATACANGATACACATTGTTTGGATTTTTAAAAACTCTATTAAATGTGTTAAGTGGT
TGTGAATATGAGGAATAATTAAATGTTAACCCCAGCTGATTAGTGAACATATAAGAAAAT
GGGGGGAACTG
Sequence 3889
CCAAAGACAGGTCTACAGGTAATAAAATTACCTTTGATTTANTTTCTCAGAAACAAGNCT
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TTGTTGTTTATTTCATTAAGGAATTTANAGATAATACTCCATTGTCTTATAGCTTGCATA
GTTCTCACCAGANATATGCTGCCATTCTTTGTTCATGTGTATGNATTATCTTT
Sequence 3890
TTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTGTTAAGCATNTAAACGTTAGATTTC
CAGAGGAAGGAGGAGTCCCGGACAGGAATCATAGCGTTGGTGTCACTGTTTTTCATCTAA
ATGAAAAATAAAAACAAGTCATACATGAACCCTGGGGAAGTAGATATTATAATTATTTTA
GAAATGAATAAATTAAAATTTAATATACATAAAAGTCACAGGGAACCTTTTAAAATTCAG
TTCCCCAGGACTAGAGAACTGCAGTGGATCTGGAGAGGCCAAGGACCTAGAGTGATAACA
AGCACCCCAGTTGATTGTTGAGACGTGGTCCCAAGGTCACTCTCTGATTACTTAGGCTTG
GCAATGCTTTTCAAGAATTTGAAGCAANATGGCATTCTCACAAAAGATCACCTTAG
Sequence 3891
GCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTT
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CTCCTGACCTNAGGNGATCCCGCCACCTNGGCCTNCCAAAGTGCTGGGATTANAGGCGTG
AGCCANNATGCCCGGCCNAAAGTNAANAATTTTTTCCAAATNTTTTTTCTCAAAANNTTT
AAANNAAAAAACTTTTNAAACTGCCCAAAANTTTNGAAAATTNATTAAANGTAAAAACTN
GCTTTTNTTTTNAAANTNGGGGGGGTAAAAANAAANGNCCCNAAAAAAAA
Sequence 3892
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TTNGACCTCAAGGGGATCTTTCTTNCACAGCCTCCTTAAGTTGCCTAAGGATTATATTGC
CATGANANCACCCAATGCCCTATTGGGAAGNAGGGATTANCATTTATTTTTNCAAAAAGT
CCTTTAATTTCCTAAAGGANNCCCAATTTNANTTTGGCTCTTTTTGGGGCCCTAAAAANT
AGACCNTNAAAANAATAAAANAATTCCCTTNTTGAAAAAACNTTTNTNTNTTATGNACCA
AAAAAATTTATATTCGCGNGNCCATTTGGAATNGAAATGNAAGAAAGGAAAGGGGGGGGG
GTNTTNTGGAAAAAACNTNTTTCNNTAAAATNAAAGGAAGGTGTGAAAACCTTTTAAANA
GGGCCCNTTTTTTTAAAAANAAAAAAGNGGAGAAGAAAAAAACCTCCTCNNNTCTNTTTTT
CATCAAAAAAAACC
Sequence 3893
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGCCACGGTACAACACTTG
GCAAGGTAACTAATTTCTATAAGTCCAGGCTTTCTCACCTGCAAAATTGANATAATAANG
ATATTGATTGATANGTATNGGCTGATTT
Sequence 3894
AATTTAGCTCCCCGCGGTGGCGGCCGAGGTACATATCAGTTATTTATGAGATTTTTTTTT
ANTTATTTCATTTTTTTTTCACGACTTTTTCTGCCATTGAATTAGCCTTTTTCTCGTGCAC
TGGTGGTCAAGAAATACATGCCATAATAAGATGGCAGTTAAACTTCATCAGTATTTTTTT
TTTTTAAATAAGATTATTTAGCCAGGCACAGTGGCTCGCACCTGTAATCTGAACACTTTG
GGAAGGCCAAGGCAGGAGGATCACTTGAGGCCAGGAGTTCAAGACCAGCCTAGGCAACAT

Table 1

NATGAGACCCTGTCTCTACAGGAAAAATGAAATTT
Sequence 3895
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATCTTTGGCCTT
TCTCTTGACATTTTCGTATGTCAAAAAGCAAAAAACCTTCATGTATTTCAATCTAGTGAT
TACTTTTTGCACCATAATTTGTTTTTTTACACCACAAAAGGAGGCACTTTCAGTATCTGT
AAAAGGTATTTAATCCTAAAACATACTTACCTAGAGAATAATTAAAACAGAATTCAATAC
AATCTAGTATCTATTAGGAAATTAAGAGTTATCACTTCTAAAAGTCATTTGAAAGTCAAT
GATGTTATCTGGTCAATGGCAGGAAATGGGAACTGGAACAAATATAAGAACTTATGGGAT
TTCCTACACGGAGACAAAAAAAGATATTCCTTTATGTTGTTTAAAAGTGGCAGCTGCTCT
TTCTTTATTCCATTTTAATCAATGAGTATTGTTTCAAGGTTTTCCTTTCTATTTTTCCTT
AT
Sequence 3896
TACTTAGGGCGAATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTTCTAANACATCTTGTTATAGCATCTCTGCATTTATTCTAATTTTATCTGTGCACA
NAACCTTAGCTTCAAGCTCCTTGAAGGGTAGCATCGTGTCCCAGCCTACACTGTCACACT
CAGGANAAGCACCCAGTAGATGGNGGCTNTGTATNTACCTACAGAGTGCCACTGAGGAGC
ACAG
Sequence 3897
ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCCATGTTAAA
AGACATTTATTATCTTGTTTTCCTGTCATGGGAGTTCCAGAAAAAGTTAAAACAGACAAT
GGGCCAGGTTACTGTAGTAAAGCAGTTCAAAAATTCTTAAATCAGTGGAAAATTACACAT
ACAATAGGAATTCTCTATAATTCCCAAGGACAGGCCATAATTGAAAGAACTAATAGAACA
CTCAAAGCTCAATTGGTTAAACAAAAAAAAGGAAAAGACAGGAGTATAACACTCCCCAGA
TGCAACTTAATCTAGCACTCTATACTTTAAATGTTTTAAACATTTATAGAAATCAGACCA
CTACCTCTGCAGAACAACATCTTACTGGTAAAAGGAACAGCCCACATGAAGGAAAACTGA
TTTGGTGGAAAGATAATAAAAATAAAACATGGGAAAT
Sequence 3898
GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTAACTCATGTGCTGGAAGACAG
CAAATCTTGGAAGTTTATTATAAAAAAAAAGATATTTCGGATAGATTCCTTTGTTGTCAT
GGGCAAAACTGTATATCCACACAGGACTGTTAGACTCCTAGCCAATAAAATCAGACTAAG
TCCATAGGGATAAGGTAAGTGTAAATAAATTTCCATTGGGGAAGACAGGGCTCATGGCCC
GTGTATCAAGGTCTCAAGCTGAGCACTGGAGAACTCCAGGGAACACTGTTCATACAGGCT
ATGGTGTGAAGGAATTCCCCTGTAGGTATGCCATACTTCAGTCTCTTAAGAAGCTGATTA
GCATGAAAGACTGGAAGCTGATTATGGNCAATTCAGTTNGAATTATTCCTTTCTATTTTG
CT
Sequence 3899
TTTGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAACCATTTTTTCCTACAAATAGTTTGT
TTTTTGTTGTTGTTTCTTTTTTTTGTTTTGTTTTTGTTTTTTTTTTTTTTTGCGTTCGCG
GGGTTGTAAAAGAAAAGAAAGCAGAATGTTTTATCATGGTTTTTGCTTCAGCGGCTTTAG
GACAAATTAAAAGTCAACTCTGGTGCCAAAAAAAAAAAAAAAAAAAAAAAAAANGTNCC
TGCCCG
Sequence 3900
CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAACCTGGAAGAAGGACT
TACNTACNAGTCAAACAAAGGCACATTGCCTAATGAAACGTTAACTTTAATGCGTCCAAA
GGTTCCATACCTCCAAGTTTTATGTAGTCTGAGCTTTTTCATACTGCCAAACTGGGTATA
TTTAAATTCATTCTGTCTTCATATAACACAATACACCTACCTCCTAAGCAACAGAAGCAT
CCAACCTGCTTATCAAATATGGCTATCTACTCAAAACGTTAAAGAATCTAAGAAAAAGAA
AGGTAACTAGCTCCAATAACAAAATATAGATGTTAGTTAAAATTTTTTTGCTTAGAATCT
CTTTGGAAAAACAAAAGAAAAAACTCATTAGGGATGTTTCCTCTTTCTATATAGAATGAT
AAGCCC
Sequence 3901
CGAATTGGAGCTCCCCGCGGNGGCGGCCGCCCGGGCAGGTACNGCTCCCAGNCTACTGAN
GTTTTAGGATGGTCTCGGNGGANANGCCCACTNGAATAAACTGAGTCCAATACCTGTACA
CAGNTATGTTTAACTGGGCTCT
Sequence 3902
GGCCGAATTGGANCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTAGAGTTTTCCAAG
TATGTTCTAANCACAGAAGTTTCTAAATGGGGCCAAAATTCAGACTTGAGTATGTTCTTT

Table 1

GAATACCTTAAGAAGTTACAATTAGCCGGGCATGGTGGCCCGTGCCTGTAGTCCCAGCTA
CTTGAGAGGCTGAGGCAGGAGAATCACTTCAACCCAGGAGGTGGAGGTTACAGTGAGCAG
AGATCGTGCCACTGCACTCCAGCCTGGGTGACAAGAGAGACTTGTCTCCAAAAAAAAGTT
ACACCTAGGTGTGAATTTTGGCACAAAGGAAGTGACAAACTTATAGTTAAAAGCTGAATA
ACTTCAGTGTGGTATAAAACCGTGGTTTTTAGGCTATGTTTGNTGATTGCTGAAAAGAAT
TCTAGTTTACCTCAAAATCCTTCTCTTTTCCCCAAATTAAAGTGCCTGGCCAGCTTGTCA
TAAAATTACATATTTCTTTTGGGTTT

Sequence 3903

CCCGCGGNGGCGGCCGCCCGGGCANGTACTGNGGCCCNCATGNCCNTTTTTTNTGNGNGT
GGCACCTGACAGTGCTTTGTGCCACTGTGGAGCAGGTGTTACTCCCTCATACCGAATTTT
AGGATTATTTTATTTATTTCAGTGAAAAATGTCAATGAAATTTTGATAGGGATTGCATTG
AATCTGTAGATNGTTTGGGGTTGTATGGACATTTTAACAATATTAATTCTTCCAATTCAT
GAACATGGGATGTCTTTTTTTTTGGCACCTGANCTCAGATATGGGACAGCTTTCTAATTA
TTTGNATNCTTCAATNTCTTTCACAAATGTTTTATAGGGTTTCAGCATACAGANCTTTCA
CT

Sequence 3904

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGCCCCCAG
GCCCAGATAATTTATTTAAAAACTTTTTTTGTAGAGACAGGGTCTCACTATGTTGCCCAG
GCTGGTCTCAAACTCCTGGCCTCAAACAATCCTCTACCTCAACCCCCCTAAGTGCTGGCA
TTACAGGCATCAGCTGCCATGCCTGGCTACAAATCTTAATGTTTTCCCCATGGCTTCTTT
TTCTGGCGTTCTTTTCTCAGGTAATGGAAGTGGGCAGAGAATGATCCTTTCCCTAGGCTC
CAGTGTGTAAGAATTAAAGAAAGAGGAAAGAAACACAATGGCTTGATGGTCGAGGACAGG
TTTATTTTAAAGAAAACAAACCCAAGAGTGGCTTCTGGCTGAGTTAGATCAGAGGCATGC
TCTCTTACAGACTAAGAAGTTTTTAAGG

Sequence 3905

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGCCCCCAGGCCCAG
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CTCAAACTCCTGGCCTCAAACAATCCTCTACCTCAACCCCCCTAAGTGCTGGCATTACAG
GCATCAGCTGCCATGCCTGGCTACAAATCTTAAGGTTGNTCCCNTGGNTNGNTTNTNTGG
CNTTCTNTNGTCAGGGANTGGANGTGGGCNGANAATGATCCTTTCCCTAGGCTCCAGTGT
GTAAGAATTAAANAAA

Sequence 3906

GAAGCCCTTTTGTACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCC
GGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTATTCTCGTATGGCTTGAAGCAAGAT
GATACTAATAAAAACCAGTTGGGATTTANATGCTATCACAAGACAGAGCTTCTGAAATTA
CTGAAATTTTGCCATTAAAATCCCTCAAGGAATTGTCTCTATTTCACAGATGATGTTCCT
TTAAAAAAAAAGCAAAACAAAATATCCATTTTTCACCTTGNGATCTCTCCCTTTGTGTTT
TGAATATTGTTAAAATGTANCATGGCCTTAGCCTGGTCATGGNGCTTGATCACCTACCCT
CAGTTTCCCTCACAGNGACCTCCACCCCTG

Sequence 3907

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGCAAAT
AAAGCCTTGGAATTGAAGAATGAACAAACATTGAGAGCAGATGAGATACTCCCATCAGAA
TCCAAACAAAAGGACTATGAAGAAAGTTCTTGGGATTCTGAGAGTCTCTGTGAGACTGTT
TCACAGAAGGATGTGTGTTTACCCAAGGCTGCGCATCAAAAAGAAATAGATAAAATAAAT
GGAAAATTAGAAGGGTCTCCTGTTAAAGATGGTCTTCTGAAGGCTAACTGCGGAATGAAA
GTTTCTATTCCAACTAAAGCCTTAGAATTGATGGACATGCAAACTTTCAAAGCAGAGCCT
CCCGAGAAGCCATCTGCCTTCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAA
GCCTTGGAATTGAAGAATGAACAAACATTGAGAGCANATGAAGATACTTCCCCATCAGAA
TCCCAAACAAAAGGGACTTTTGAAAGAA

Sequence 3908

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCACCACGC
CCAGCTAATTTTTTTTTGGTATTTTTAGTAGGGACGGGGTTTCACCATGTTAGCCAGGAT
GGTCTCGATCTCCTGACCTCGTGATCCGCCTGCCTCAGCCTCCCAAAGTGTTGAGATTAC
AGGTGTGAGCCACTGCACTCAGCCCAAAGAATACTTTTGATGTTCCTCTTTGTTCATATT
TGTTTTTGATGTCCCCCTTGATCATGTTCTGTGTTTACCCTCATGGCCGGCCTCTCCATC
TNCTAGGCAGCCTGGCATCCTCGCTACAACCTCATTGTTGTGGGCCGATACCCAGATCCT
AATTTCAAAAGTTGTACCTTCGGCCGCTCTA

Table 1

Sequence 3909
CGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCNGGGGGCGAAGTTCTGTGCTGGT
CNTTTGAGTAGCAAGTGGCCATGGGGAGCCTCAGCGGTCTGCGCCTGGCAGCAGGAAGCT
GTTTTAGGTTATGTGAAAGAGATGTTTCCTCATCTCTAAGGCTTACCAGAAGCTCTGATT
TGAAGAGAATAAATGGATTTTGCACAAAACCACAGGAAAGTCCCGGAGCTCCATCCCGCA
CTTACAACATGAGTGCCTTTACACAAACCTACGGATTGGCAGAAAAAGATCCTCATATGG
TCAGGTCGCTTCAAAAAGGAAGATGAAATCCCAGAGACTGTNTCGTTGGAGATGCTTGAT
GCTGCAAAGAACAAAGATGCCNAGTGAAAGATCAGCTATCTAATGATTTGCCCTTGACGG
TGGTAGGATGCATCNTTCANGGTTATTGAGGGCAAN
Sequence 3910
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGAG
AAGATTGAGAAGTATATGCAATGTAAGTGTATTTTAAAAAGAAAAGCAACAGGTTTGACT
TGAAGCTATATTTTTCTTTTCCGTTTTTTTTTTT
Sequence 3911
TTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTGCTTGTNAATACTTCTAACTTAAGAGCAAGCAAACATATTTCAGGTTTAA
TTTTATGGAACAAACACTCTGCTTGTGAATTGTCCACAATATTTCCATAATAACTAACAC
ACTATCACTCCATCAGGTTTCACTACACAAAGTATTGTGAAACGGAGGTGGAAATTTTTT
CCAGGTGTTTANACAAGTATTTAATGAAGCTGAAGCAATATGTTCTTTGAGCATTTAAAA
ATATTTGAGATTAATTTCACCAGATGATTTCTTAATCAAGTAAACTGGCTTAGATAAGAA
AAAGTCAGAATATTATTAATGAACCTAATGTTCTCTCATGTTTGAGATCAGCCAACAGGC
CACTTACTTATACCCTA
Sequence 3912
CCGCGGTGGCGGCCGGGCATTTCTCCCAGGGATCTCTGTGCTTCCTTTTGTGCTTCCTGT
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ATTGTCATCTTGCTGTTTCTAGTGATGTTAATTATCTCCATTTCAGCAGATGTGTGGCCT
CAGATGGTAAAGTCAGCAGCCTTTCTTATTTCTCACCTGGAAATACATACGACCATTTGA
GGAGACAAATGGCAAGGTGTCAAGCATACCCTGAACTTGAGTTGAGAGCTACACACAATA
TTATTGGTTTCCGAGCATCACAAACACCCTCTCTGTTTCTTCACTGGGCACAGAATTTTA
ATACTTATTTCAGTGGGCTGTTGGCAGGAACAAA
Sequence 3913
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTTGAAGTCAACTTCTA
TCAACTTTTGGCCAGGCCCGTGGCTCATGCCTGTATAATCCCAGCACTTTGGGAGGCCGA
GGCAGGCGGATCACTTGAGGTCAGGAGTTCAAAACCAGCCTGGCCAAGATGGTGAAACCC
CATCTCTACTAAAAATACAAAAAAATTAGCCAGGCGTGGTGGCAGGCGCCTGTAGAATCC
CAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGGAGGTGGAGGTTTCAGT
GAGCTGAGATCGTGGCATTGCACTCTAACCTGGGCAACCAAGAGTGAAACTGTCTCAAAA
AACAACTTTTATCAATGTCTGCAAAAAGAAAAGTCTTCTGGGGATTTATAGGATCAATTT
AGGGGAGAAATGACA
Sequence 3914
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TTTGGGGGAAAGAGTTTGGTAGTGTTAGCCTGGCCTGTCCTCCACTGTATTATAAGTAGC
TGTTATCTGAAACAATTGAGAACACAGGGGAAAAAAAGACCCAATTATGCACCAGGAAGT
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CCTGAAAGGGATATAGGAGTTATTGGGTAA
Sequence 3915
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTANACAGGGAGATGGGGTTTCACCAT
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AAGTGCTGGGATTACAGGTGTGAGCGACGATGCCTTGCCAAGATATTTCTGCTTTCAACA
TGCTTACCTGTTCAAGACTCCACTGGAAACTAGAGCTTNTTTAGGATGGAAATATTTGTG
ATATACATTTCTAACCACAGCATNTATGAGGGAAAAAGANAAGGAGGTATATTTTAGGTT
AGAAATAAATTCGATATTATAGACTCATACCA
Sequence 3916
AAAGGCCGAATTGGANTTCCCCGCGGTGGCGGCCGAGGTACTGGCGCGTGTGGCTGATGT
NCTGATGCCACCNTTTTTCTTGGAGGGGACGTGCCCGAGGNGCACTGCCAGTCTTCTGCT

Table 1

GACCCCGCAGCCCCAGAGCACACCTTGTCTCGTTCAGTCCAGTTCACAGGAGGGCTGAAC
AGTGGGACCAGGTCGTTCTGTGAATTTCACACTTAATTTTTCTCTCTTTTAAAATCTTTA
ACATGAAGATGGCTTTTCTAAACTTTAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCG

Sequence 3917

CCCGCGGTGGCGGCCGCCGGGCGGNTACTTGGTATTGTATTTTTTATAAATTTTNTTTTT
ATGTAAAGCTTANAATTTGATTNACAGGGACCTTGCTGCAGNAAATACCATCTCAATTTT
GTGCCACTGGTTCAGCTGTTAGCACAGTAAAAAAATCATTTGTATCAAAGGGGCAAATGC
TTTATTAAGGTAGTAAAAGGGAACATTACTTCTGCTTTTAGGAAGTTACTGCAAGCACAA
GCATTTGTGCTTTTAAGCAAATTAAAGTAGTAAAAGAAAAACTTAAGTGAAACCTTTGCC
ATCTTCATGTTTTATAATATAAAGCTTACCCAACACCAGTTAAGCCATGGTTAACCCTAA
ATGCCTCATGCCCCAGTTCAGCAAAAGGAGGAAAATGTGCCTGCCTCACAGCATCAGTCT
TTTTAAAT

Sequence 3918

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GGCGGCTCACTTGAGGTTAGGAGGAAAGCAGACTGGCCAACATGGTGAAACCCCGTCTCC
ACTGTGGTCCCAGCTACTTAGGAGGCTAAGGTGGGAGGATCACTTGAGGACAAGAAGTTG
AGGCTGCAGTGAGCCAAGTGTTTGTGCAATTGCTCTCCAGCCTGGGTGACAGAGCGAGAC
TCTCAGGAAGCCGCAGTGTTAGTTGCCTCTGATTTTTGACAAAGCATGGGAAGATGGGGG
GCTGTTCATACAGGGCAAGCTTCAAGTGTCAGTCAAATAAAAACATCCTTGCACCGTCCT
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Sequence 3919

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAGGGCAGCA
ACCCAATCAGTGACATTTGGGCTATCCACGCGCTGCGGATCGTGGCTAAGTATCTGAAGA
GGGCCGTCAACAGCACTGACAAATGAAGAAGAAGAATGAGTCTCAGGGCACCTTCCTGGA
GTGGCCCTCGCCATCCAGGGACCAGCGCGTTGCCTCCCCCGGCGCTTTTACATCACATGA
GCAGCTGACAGCGTATTTATTATGCCTTTGCTGAAACAGTTGATGAGAAATATGTTTCCC
TTCAGTTTTCATTTAGAAGACAAGGGCGGTCGTTTGAATAACTTGCCTGATTTTTCTTCC
TACCCGAGTAGCATTTCTTTTTTTTT

Sequence 3920

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTT
TTTTTTTTTACTTTTTTAACTTCTTTTTAAGTAGCCCAAATGACACAAGACCAGTATTGA
CACATNTCACATAAATACAATTCTTGACAGATACACTTTTTTTTTTACTGNGTAACTTTT
TTTTCCAATTTAGAGAACCGCATCCTATTCCATGCTGCTTACCCGCGTACCTN

Sequence 3921

TTAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTT
TCCTTANAGACATGGCCTCGCTATGTTTCCCAGGCTGCAGTCAGTAGCTATTCATTCACA
GGCACGATCACTGNGCACTACAGCCTTGAACTCCTGGGCTCAAAAGCGATCCTCTCGCCT
NAGCCTCACCACATCTGGCTACTGTTTATATTTGGTGTAAGGACGGGATGTTTACTTTCT
GGAAATAAGTTAGAGTTGTTCATAATTGAAGTTGCAGAATGAGGAATTATTGTCAATAAT
AAACATTAACTCAAAATCCCTTCATTAACTGTTTATTGCCTTAGAATTAAAAGGTGAAAT
GTATAGTTAAAAAAAATCTACACATAAACTGGATGGTGCAATCCCTATACTTCACTTCAA
AGCCTGTTGCATCCCAGGAGTTAAAGTNTAATTACCAAAATCAGTACCTTGGGCCGTCTA
NAACTANGGGGATCCCCCGGG

Sequence 3922

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GGCCTAAAACAGCCTGAAGGCTGAAAGATTGGACTGCTGGTCCCAGATGAAAAACACGAC
CCAGAGGGAGAACTGCCCCTGTTTGTCCACCCTTTCCCAACTGATTCTTTCTGAATAATG
CCCACATGTGCACTGGAAGGAATGGGGTGGAGGTGACCATGGAATTTGCACCTTNTGCCA
GGGGGGAGGGAGTCTNGGCTCTTCANCTCATGTNGNGGGGGGCCCTGGATATTTCAATTC
TNTGAAGGNGGGGNNGGCCCNTTGGGCNAGGNACACCCCCTCACTTTTGCTGAAAAGTTT
TTTTTTTTTTTTCCTTT

Sequence 3923

TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAANGATGA
AAGTAGAAGTCTTTTTTGACAAAATTCAGTTTTAAAGTTGAGTTAAAAACTGGTTGATAA
GATTGAGATCTATTTCTTCTAAAGAGTGGGGAAATTCATCCTCTGGTTTTGCTAACTTTT
TTTTGGAGGGNAAGCAGGAAATAATTAAATTGGGGCCTCTTTTTGCAGTTTANGGAAAAA

Table 1

ATTT
Sequence 3924
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CTTCCCCCAGCTTCCCAATTCAAACTGGGGGGAAAAAACTAAATCATTGGGAGTTACTTG
CCAACTTGGAAGTTGATATTTTCTTTACTTTTTTCCATTCTAAGAC
Sequence 3925
AGGTACCACCACGCCCAGCTAATTTCTATACTTTTTGTGGAGATGGGAGTCTCTCCATGT
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TGCTGGGATTACAGGCGTGAACCACGTGCCCGTCCCCAAAAATGGTTTTAAATACATCCA
ACGTATCATCCTCCCTCTTTAACTGCACTCATTAAATTACCGTTTCTTCATTTCAAAAAA
GGGGAATTCATNATTTCCCTTTTCTTCCACTTCCATGGCCCTA
Sequence 3926
CGCGGTGGCGGCCGAGGTACATTCATTTGCTTTGCTCTGTCAATATGCTTGAGTTGCAAA
TGTAGACATTGAAATGATCTGAAATTCCCTCTGACAGAGAGGTGNTCCACCACTTGATAT
ACATTTCTCCT
Sequence 3927
AGGTACANGGTTATTATGAATAGGGAANGGAACACCTTGGGCCCAGGAGTGAGTGTTTCT
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CCTCTGCAGGTGTGCGAGCAGGATTGCTTCTGCAACAATAGCCTCCACCCAGCCACATCT
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CATGTGCCCCATCAATGTCAGCGCCAGCACCTTGTATGGAATTATGTTTGATGCAGGGAG
CACTGGAACTCGAATTCATGTTTACACCTTTGTGCANAAAATGC
Sequence 3928
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GCAGATGCAACGGGTGGGATGGGGTGCACAATTATCACAGTGCTGGTTGTAGGTGTTACC
TCGACATTCTGCCTTACAGCTGAGGGGGGATTTGTTTCGTCCCTGCCTAAATGAAAGGTG
TTAAAATAAAACTTGGATGCTGTTATTGGAA
Sequence 3929
GCCGAGGANCCCTTTTTAAGGGCANGGCTTTTGTTTTGNNGCCTATGGGTAAAGGTTTAA
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CATGTTACCTGATAAACTGTCAGAGTGTCATCAATGTTTCTTAAGACAACCCGGCTTATN
GGTAAAAATNGANTCCCTGCCCTGGTCACTTCCATCTGGAACCTGAAGTATCCTATGNAG
CTANTTTNATGGGGAAAAT
Sequence 3930
CGAGGTACACAAAATCCATTTTCCACTTAAAGGCCTGAGCCAATGCCCCCAACCAGCCTA
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TNNAAANCGGAAATAATGAACTGTATAGTTTGGCTTGTCATNAGTTTTTGAAAAGCAGTA
AANACAACCCAAAANACAT
Sequence 3931
AGGCCGAGGTACTTTTTTTTTTTTTTTTTTNTTTTGGGGAGGAGAGGAGCACGTCAAACA
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GCCCCCAGGGTTNCCCCCCAANCCTTTTTTTTNGTTTTC
Sequence 3932
CCGGNCAGGTNCAAAGATCTGACATGTCACCCAGGGACCCATTTCACCCACTGCTCTGTT
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GGAAGAGAAATCCATGGTTTGTTGCCCTTGCCAATAACAAAAATGTTGGAAANNTCNGAG
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Table 1

TAAGCCANCCCNTCCCAGTTCNACCCCATTANCAACCAAGGGTTTTANCCCAAAGTTGNT
TCCGGAAAACTTNTGGAATCGGAANAAAATTCCNAGGTTATANTTCTTTTNGCCCCAAGN
TCCTTCTTTAAAAAATTCAAAATTCCTGGAAAATTGGGGNTATTCCAA

Sequence 3933

CTCGCCCTGTGCCTGGTCCCGCTTGTGAGGGAAGGACATTAGAAAATGAATTGATGTGTT
CCTTAAAGGATGGGCAGGAAAACAGATCCTGTTGTGGATATTTATTTGAACGGGATTACA
GATTTGAAATGAAAGTCACAAAGTGAGCATTACCAATGGAGAGGAAAACAGACCGAGAAA
AATCTTGATGGCTTTCACCAAGGACANTGCCATACAAAACCAAAAATGGGAATACCTGTN
GATGGACCATAGAGGGCAGCCCAAGCCTGGGGGGAAGGGAGAATANACCCACCGGGGGCC
ANCAAGGGGGTTCAAGGGAATTTCTTGGGCCCCTNGCTTCNCTTAAAAACTGGTTGNCGN
TTTCATTANNCCCAAAAATTCTATTTTNCAATAANTTTCCTTAAACCCCCTTCNAAAAAC
AAAAAANCCTTGGTTNGNTTAATNATTCCTCGGANNCCTTCTAACCGGGTTTCCCCTTTT
CTTGGGGGGCCCCAAACCAATTTCTTTCCATAAATAATTNCCAAGCCCCACAACCTTCAA
NTTTTTTTTTA

Sequence 3934

GGGCNATTGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGACCCACACAGTTTAAGCAAA
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GTATCTACCCCAAGCTACGAAGACTTCCATTCCTCTTATTAAGCATTCAGCAACTACATT
TAGTGCCTACTATGCCAGTGATGCAAGAATGGATAAGACAGTCCCTACACTCAAGGATAA
CGCCTCTAGTAGGTGAGAGACAAACCGATTAATTCTGCATAAGGGATAAGTGCTGTATGT
GGGAAGCAATCCAATGAGGGCTCTGAGGATGGCAAAGGAAGGGTTCCTGGAGGATTTACA
TTTAACTGGTGCCTTGAAAGGTGTGTANAAAGTTGGCAAGATCAAAAGGGAGTAGAGTCC
AAGGTGGGANAAGAGAAAAGGAGCAGGGGCCAGGCTT

Sequence 3935

CCGGGCAGGTACCAAGTGAAAGGGCTGCAGGTCTNTCATCAGACTTTTCACATTANNTGT
AGCCTGATNNATGCAAATAGAGACCCCTCCCCACTTGAAGCTCCCTCCTCATCACTTCCN
AAAGCTAAAAAATTATTTGATAATCTNATCATTGTGCCTTCTTGGACATCGTAATTTAGC
ACTGAC

Sequence 3936

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACAGGCACACACCA
CCATGCCCAGCTAATTTTTTTGTATTCACGTAGACACGGGGTTTTGCCATGTTGGCTAGG
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TTTTTGAGACAGGGTCTTGCTGTCACCCAGGCTATAGCCGCAAGTGGTGCATTCATAGCT
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TTGNANGGGGGGGGGGAAGAAANAAANANGGGAATTTTNTNCCAACNTTCCTGGGACCC
CTTTAANNCNAAATTNTTTTNCCCCNACCCNTNNAGAGCCCNTCTCCNANANNNGGGGGG
GGGGGG

Sequence 3937

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AATCAGGATTCCGGAGTTTGAATCCACCTTTGACAATTGTCCNAAAGACGTTTGAATCAA
CAGAAAACCCAGATGACTTCTTGCCCTCTGTAATGACTTGTGTGAACTATCTTAAGTTGC
CGGACTATTCAAGCATTGAGATAATGCGTGAAAAACTGTTGATAGCAGCAAGAGAAGGGC
AGCAAGTCGTTCCATCTTTCCTGATTATAGCAAGAAATGCAGTNTCTGCCTGTTACAGCA
AAAGAAACAAATCATGATTTCTTTTCTAATG

Sequence 3938

CCGCGGTGGCGGCCGAGGTACGCGGGTGCTGGAATTACGGTGTGAGCCACTGCGCCCGGC
CCTTAGTAGCATCTTTTAATGGAGGTAGAGTTGAGATTTCANTGACTAACAACTAAAGGT
ATNAAAGGNAGGGGTTTATATGATACATNTGCATTTTANAAAACTGATNTAAGCTTNAAT
GTGAAGAACAGATTGAAATGGAANGGNGAGAANACTANAAGCAGAAACATTACTCATTTA
AGTAA

Sequence 3939

CTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCACGGTACTTTTTTTT
TTTTTTTTTTTTTTTGGGAGAAGGGGTCAGGGAGCACCTTACCTCTAGTGGACAAGGGCC

Table 1

CTGAGCTTTACACAGCCCTCCGTATTTATTAGGCAAAANANATAGGAGGGTGGGGGGG
Sequence 3940
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TTTACTTTTTCATATTGAAATTCTTTTTTTAGTCTATTCTCTTGTAGCTTTTGTTACATC
CAATGATCATTTGCCTCTCTCCAGGCACTACCAAACTCATTACTGTGGATAGTTTCTGCC
TTTACAGGCTTAGAATTGACAAATTGAGAGACACATTTTTTTCAATTCTCAAAACAACTA
GACTCTTTCCAGCAGATTTGCTAANGCACACTACTAAGAAATGTANAAATCTCACATTCT
TGTTCTAGTTAATACATGGGAGAATATTACTAATACATACATTNGTTTTCTACATTTGTG
GTTGCCTTATACATTNTTCCTTTCACGTTTTAA
Sequence 3941
AGGGCGAATTGGACTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAACTAAACTGACA
GTCCTTCGATAATATGAAACATTAATTTACAAGGACCCGTTAGGGCTTCAATGATGCTGA
GTCTTGGAAAAGGGGGGGAGACCCTTGGGAGGACTCCAGGCAGCTGTGCTCCCAGGGCTC
ATGTTCTCTAACTGGATTAGGGATATGTCACCTNTGAAAATCTCCACCCTTGATGATTTG
GAAATGAAAACCGGAGTGGAACATTGAGCCCCAGCTTGAGAAGAAGGAAGCAAGGAAATT
GTTGTGNAAAAAAACAGGCTTGCTTCTCCCTTTTGGTTCCCAAGNCTTTTTGGTTGAATT
TGGAAG
Sequence 3942
TTAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTANGGGAGGCTGAGGTGGG
AAGGATCCCTGGAGCACAGGAGGTCAAAGCCGTAGTGAGCCATGATCACAACCACTGCAC
TCCAGCTTGAGTGACAGAGAGAGAACCTGTCTCAAAAAAAAAAAAACTAAGTCTAAACTT
GTAGATCATCTCATGATAGATTCATAGGGAAATGATACAGTTGACCATTGTTCTGGCAGG
TTCCATGTGCTGAGTCCTCGGGTATATATCTCACAGGAAGTGATTCTAGCTTG
Sequence 3943
AGGTACTTTTTTTTTGTGTTTTTACTACGAGACGGGGTTTCACTTGTGTTGGCCAGGATA
AGTCTNGATCTCCTGACCTTNTGATTCTTGCCCGNCTTGNGNCTTCGNCAACTCTTTTTT
GACCCCTTCANGGGAACNGGCTNAACTTGAAATTTTTGTTCCNTTGCGGANGCCCCANTG
CTTTCTTGGATGGNCATGGNCCTTANGNGGGANGCCNTGTGAAGANGCAATACCAGGGNN
GTGANTCNAAGCTCNTTTTTCCNGCCTGGNATCCCCTCATTGNNCCCCTTGTCTTGACAA
CCCCTTGGTGAGGGGGCTTGNGAAACCANAGGCCTT
Sequence 3944
CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGTGATGTTTGCCCCACAA
CAGGGGTCATTTGGCAATGTCTGGAGACATTTTTATTGTTATAGCTGAACAGGAAAGTGC
TACTGGCATCTGGGAGGAGGCTGCTAAACATCTCACAATGTGTTACCCGTCCCAAATGTC
AGTCGTGTTGAGGCTGAGAAACATGGTTTAAATGAGTCAGAGGCTGGCCACAGTGGCACG
TGCCTGTAGTCCCAGCTACTCAGGAGGCTGCGGTGGGAGGATTGCCTTAACCCAGGAGTT
CAAGACTAGACTGGGTGATATAGCAAGACCTCTGTCTCAAATAAAAGAAGCAAAAAATAA
ATGAATCAGAGACTAGTAAATCTACCTCCTCTCANATTTAAAGTCTCAAGCCTTAGAGCT
GANAAGAAGAAAGAAATAG
Sequence 3945
TCCCCGCGGTGGCGGCCGNCCGGGCAGGTACCTGGTTTTAACATTATACCAAGGAAGGAN
GCACTGAAGAGGGTANGAAAGACNGTCTTGAATGGCTGATGCCACCCCTCCCCTATGGAG
GANTGTGGTGCTGAGAGAGAATCTGTGCTTGGGAGAGGGAGAGCACA
Sequence 3946
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCAGGGTCTGGTGGC
TTCTCTTCTCTACCCTTTTCTTAAGAGTCACTGGTGTCATAAAGCCCCAGAGGATCAACT
CTGTATATCAGCCTCATGAGAACTGACCTTCTCCTGACCTCATTAATGCTCTTATTTAAA
AGTTCTCTAATTAAGCTTTGTATTTTGATATAATTAGAGACTCACCTGCCTGTGTCTTAA
AAATAACTCTCCCAGCTACTATCTCACATGATCTGTGGGCCCATCTTGTGAAGCCTAGTA
TTAAAAAATATTTTTGTTTTTTCAGTGGCGTGCATTTTAATTCTCAGGCCATAGCTCCTAC
CATTGAACAGATTGACCAGTCTTTTGGCGCAACCCATCCTGGNAGGTAAGCCAAGTCCAT
CTGATTCCTCTGGTCATCAGTGGCAGTTCATAGCAATAAACCTG
Sequence 3947
CCGCGGTGGCGGCCGCCCGGGCAGGTACCTGGTTTTAACATTATACCAAGGAAGGAGGCA
CTGAAGAGGGTAGGAAAGACAGTCTTGAATGGCTGATGCCACCCCTCCCCTATGGAGGAG
TGTGGTGCTGAGAGAGAATCTGTGCTTGGGAGAGGGAGAGCACAGTGACTATGGCACTTT
GTATTGGAACTCAGTGTTTGTTGGTCTGTCTGTCGGAATGGAAAGCAATGCAGGGCACAA

Table 1

TTTCGCTGGTGCCCACAGAGGCTGCATTTANAACAAGCCCTAGCCAGAGAAGAATCTTCC
ATCCTAGCAATTGGAACCTGGGTTCCAGCTAGCCCACCCGCTGTGGGCTAAAGTNATNTA
AGCTCCTAAATAAAATT
Sequence 3948
GGCGAATTGGAGCTCCCCGCGGTGGCTGGGCCGCGGTACTCCCTTNCCCTGACTCAGCCT
TTTATTGATGAAGGCATGGGATGGGATGGGGAGAGCNCACCTGGCAAAGACTNCACACAG
GTGTGCAGCACACCCTGATGGGGCCNGAAAATGTNACTGTNAGCCCTANGGGTGA
Sequence 3949
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATCATGAGGAG
CAGAACCACTAAGATAAAGATTATGTATATATGTATTTTAAGGGATTTATTATAGGGATC
TGACCGCATGCCATTGTGGGAGCTGGTTAAACAGNCTCTGTAAGGCTGNNGNNNNTGCAT
CTAATG
Sequence 3950
CTNCTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGANGTGCCTGNNNNGCTNNNTNT
TACTTAGACATATTNTANAAATTATTAAAAAGATTTTCATGTTTGAAAACTTGGGGAAAA
AAGAT
Sequence 3951
GAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCNGGTACTANCGGAATTAAGAAAGAA
ACTTGTGTGTTGTCTGGTTTTAAAACTGTTTTTTAAGGCATGTAATGTTGCTTATTTTAC
CTTTTTAATTCTNCCTGNATAACATTTTCTTTCTTCCACTCAGTGAACATCCCAAAATAG
AATTTTACTTGAAAAACTTTACATCAGCCNAAGATGTTTTGNTTGCCATAAAGGAAGTAG
GTNTCAGAGGGGGTAATTCCAATACAGGTAAGNAGACTTTGATACCTGGGATGTAACATA
GGAGAGGGTTATCAGTGATCAGACATGTAAAACAGTANTATGCTATTTTA
Sequence 3952
GCGGCGGCCGCCCAGGCACNATCNNNANGTTACATGTATACCAGAGGGGGTGAGGCACTG
CTANGGTNAGGAAAGACAGTCTTGAATGGCTGATGCCACCCCTCCCCTATGGAGGATGTG
TGGTGCTNAGAGAGAATCTGTGCTTGGGAGAGGGAGAGCACAGTGACTATGGCACTTTGT
ATTGNAACTNANNGNTTGTTGGTCTGTCTGTCGGAATGGAAAGCAATGCANGGCACAATT
TCNCTGGTGCCCACAGAGGCTGCATTTANAACAGCCCTAGCCAGAGAAGAATCTTCCATC
CTAGCAAATTGGAACCTGAGTTCCANCTNGCCCACCGCTGTGGGCTAAAGTTGATNTNAG
CTCCTAAAATA
Sequence 3953
TAAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTT
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TCCAAATGATATAGTGTTTGTATTCTACCAAGTCANATAAGTAGGTGGAGAAAAGACAAA
GTGACAAAACACAGGAGGGACAAAGAGATTATGCCTTCATGCTTCCCCGCTCCTTGAAAA
TGTAGTATATGCCAAGTTTTCATTGATTCAGTGGGTAAGGCAAGGGACACTGGCCTGGTG
CCAGTTCAACCACTCTTTCAGTCTNTTTGTTTATTCAACAAGCTGTTCCACTGGGTCCTG
GGGGAANAGGGAANTATTTTG
Sequence 3954
AGGTACTCANCTGAAAACACTGTTTCAGCCCCCTCTCTGGTGACCTCAGCCTTCTCCAGG
TGTATCTCTTGATGATCTTGGAGACCAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGAC
TGTCAGGCTGTGGTGGGGGGCAGGGGTGTTGGAGGAGAAGNTGAAAATCCNTGTGTTNTC
TGCCCCTCTGCTCCTCCATCTTAACTTCTGGAGGAGTTAAGGCAC
Sequence 3955
CCGCGGTGGCGGCCGAGGTACTGTGGCATGGCGCAGTGGGTGACATGATGGCCACATAGC
GGTCAAAAGCCATGGCCAGCAGCACTGTGGATTCCATGCCAGATAAGGAGTGGATGGCAA
ACATCTGTAGCAGACAAGCATCAAACTGGATGGTAGTGGAATTGAACCAGAAGATGGCCA
GCATTTTGGGCATGGATGAGGTGGAGATGAGGGATGTCAATGCCTGAAAGCATGCAAAGA
AATATATACATGGGCTCATGCAGGCTGTGCTCANTCCGCACAATGTAGATGATTGTCAAG
TTACCTAGCA
Sequence 3956
ATTGAGCTCCCCGCGGTGGCGGANATGTCNGATTTTTTTTTAATTTAATGAAATTGTTAA
TGAGGAAAAATTTTTAATATAGTCTTGTCTACCACACATCCCCATAGATTTAAGGATTTT
AATAGAAAGTCATGATGTATGTATTTAAGCCACGTTAAAAGAAAAAATATAACTATGGAC
CGGTATTCAGTGAATACAGNTTCATGGTTTTNAATTCTTTCAAAGCACATTAAAAATGGN
GTGCTGATAAACCCCAAGTAAATTAACCCTTTTTCCGTATAAATCC

Table 1

Sequence 3957
TAGGGCGAATTGGGTCCANCCCNCCGCGGTGGCGGCCGCCCGGGCTGGTACCAACGCCTC
CCAGGCANAGCCCCCCAACTCTTGATTTTTGATGTCACTAANCGGCCCTCAGGGGTCCCT
GATCGCT
Sequence 3958
TNGGAGCTCCCCGCGGTGGCGGCCGNGGTACATCACCCTGCTGAGGGACATCCAGGACAA
GGTCACCACACTCTACAAAGGCAGTCAACTACATGACACATTCCGCTTCTGCCTGGTCAC
CGACTTGACGATGGACTCCGTGTTGGCCACTGTCAAGGCATTGNTCTCCTCCAATTTGGA
CCCCAGCCTGGTGGANCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCT
GGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAATAAATGGGAGTTCTTCAGTTTT
ATCAACCAACAANCNAGCTTTCANGCNCCCAAGCCTCTTTNTACCNTNAATTTTNAANCA
ATNACCCAAAACCTNACCATNTTTTNCCCAAGGNANAAAAANCCCAAATCCAGGGCNNCC
ACNCCAATTTNCCCC
Sequence 3959
GGCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTTGA
CGGAGTTTGGCTCTGTCACTCCAGCTGGAGTGCAGTGGCGTGATCTTGGCTCACTACAAG
TTCCGACTGCCTGGTTNAAGCGATTATCCTGCCTNANCCTCCCAAGTAGCTGGAACTACA
GGCACGCACCACCACGCCCAGCTAATTTTTGTATTTTTAGTANAGACGAGGTTTCACCAT
GTTGGCCAGGATGGTCTCCATATCCTGACCTAATGATCCACCCTTCTGGGCCTCCCAAAA
TGTTGGGATTACAGGGTGTGAGCCACTGCCCTGGCCCCATGTCTCTTCTTATAAGGGCCT
TAATCCCATTTNNGAGGGGCTTTTGCCCTCAANACCCAANTAACCTTCCAAAAGGTCCCA
ATTCCAAGAACCATTCACATTCANGGTTTAAAGCTTCAACATATGAATTTGGG
Sequence 3960
CCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGATGCTACACCGGAGAAAGGGGGATCT
GGTGATCCTAATTTTGTCACCAGCTTTGAAATCTTTAGCTAGGCATTTCAGCCCTATAAA
AATCCATTTTCTCACTTGTAAAAAGAAGAGTTGAAGTTATGTTTTTCCAGGGCTTTTTTC
TCTGACAAACCGAATTGCAGAACAATTTTATGACTCAACCAACGTAGCANAGTCCAGAGA
GAGTTTGAAAAAAACACCTTACAAAACTTATAACTGGAAGTTCTCCCTCCAAGGGCACTT
AATTTTTTCAAGTGAAAGCATGCATGCNAGATTCATCCANCTGTTACC
Sequence 3961
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGTTCAGCCCTTCTCG
ACTGGAGGCGGTTCTGCCTATTCCGCTCCCCACCTGGACACTTAGCAATGCCTGGAGACA
TTTTTGATTGTTGTAAATGGCATCTAGCAAGGATGCTGCTAAATATCCTATAATGCACAG
GACAGCTGGGACCCTCCCCCCGCCAACAAGGAATAATCCACCCAAGGTCTCCATAGCACT
GAGGCGCCGACAGCTTGCAGTGGCTCACGCAGGAGGAAGGAGCCTGGCGCTTTCTAGACG
CCTCCTCTGAGAATATTACCGAATGCACTACATGCTAGGCAGAAAGGATTGNGCAAGATC
ATTATGCTAATCCGTTGTAACCCCTGTGCACTGTNAAGATCCTTGGAATATGGAATATTN
CCAAGTAAAAAATTTNCNCCCACCCTGGT
Sequence 3962
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGCATTTCC
GGGAAGATGGCGGCGCACAAGTCAGGTCCGGCACATGTTTCCGCGGAGCGGACCCAGCAA
TGACGGATGATATCACCTCTTCTTCTCTGGTGAGAGTCTGAGGATAGAGACTTTTTTCTC
ACCATGAATGCCACCCCAGAGGTCAAGAGTCGTGGGATGAAGTTTGCTGAGGAGCAGCTG
CTAAAGCATGGATGGACTCAAGGCAAAGGCCTCGGCCGCTCTAGAACTAG
Sequence 3963
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGANGNGCCGGGGCCTTTCTCAT
TGACTATGCTGCTGGTGGGGAAAACTGCTTGTCTNATGANAGGGAAGGGNTAGATNTCAT
AGAGA
Sequence 3964
CCGCGGTGGCGGCCGCCCGGGCAGGTACACCCTAGCTTCTTCAGAGGAAATGGAAATATC
TTGAACTAAGCAGCATTCCAGGGAATCCCCTAGCAAAAATACATACAATAATCCTGGGCT
GGGCAGTTGCTCATGCCTGTAATCCCTTGGGAGGCTGAGGCAGGCAGATTGTTTGAGCCC
AGGAGTTAAAGACCAGCCTGGGCAACACGGTAAAACCCCATCTCTACAACAAATACAAAA
TTAGGCTGCACGCCTATAATCCCAGCACTTTGGGAGGCCGAAGCAGATGGATCACCTAAG
GTCAGGGAGTTTCAAGACCAGCCTGACTAACATGGGTGAAATCCCTACTAAATACAAAAA
A
Sequence 3965

Table 1

TNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATANGCAAAAATCAA
AGAGCACAGACTGTATTTTCAAGAACAGAAAAATCTCTAATGCTGAAAGATATAGTAGAA
AGCAGATTTCTTTGGGGACATTAATCAATTAGTTTATAATTCATTATGAAGATTTCTCTT
TTTTATTCCGGGGAGAGTCTGCTACATTTGAAGTTAATGTTCCATTCACACCATTTTCTG
CAAAAAGAAAAGAATCCATGTTACTCTCTTTTATAAATAAATGCCAAGTTATAATCTTTA
TATGTAAAGATACCTTCAGAAAAGAAAAATGTAAAATCCAATTCACTCAGGGGGAAATTT
ACTTACCAGTATTTAACCAATCACAAAACCTGGTAACATTTTTAACACAATGAACTGGGA
AAGTAGGCAAATTAAAAGAAAACTTCTATTAAAAGCAGAAAAAAGTGGCCAGCCAGAAAA
CT

Sequence 3966

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGCAGGTACAGAAGAACTGTATGGGTA
TCTGAAGAAGTATCACATAGACCTAGATCCACACTTCAACGATATCCTGGGACAACATTC
ACGGAAACGCTGGGAAAACTTTATCCATAGTGAGAACAGACACCTTGTCAGCCCTGAGGC
CCTAGATCTTCTGGACAAACTTCTGCGATACGACCATCAACAGAGACTGACTGCCAAAGA
GGCCATGGAGCACCCATACTTCTACCCTGTGGTGAAGGAGCAGTCCCGGCCTTGTGCAGA
CAATGCTGTGCTTTCCAGTGGTCTCACGGCAGCACGATGAAGACTGGAAAGCGACGGGTA
ATGCGGCATTGATGCTTGCCAATAAAACCAACCAACCAAACACAAACCTTGAAGGAAAGC
TACAGTGTGATAAAAAGAAATTCTTATCATTCCTTNTNAATGCACAGAAGAGTNAAAGAC
CTAAAAGTCTGTCAAAAAGCAAGAAAGAAACTCCCCAGTGCTAGTCTCCAGGGAGCTGTC
ACTGTGGCAGCATGGGGATGCACCTAGTTCANGATCTGAAGGAGCTCTGCCTTTGGAATG
CATGGGAGATAGAAACTCGGAGTTGTTGTACCT

Sequence 3967

AGGTACAGGTTTGGGGGCTCTTTCCAGCCTCTACTATGTTGCCCCCTTCCCCAAAGCCCT
TACAGGGGCAGAAGCACATTCCCCGTGACCCTGAGTCTGGCCTCATTTGGGAAGTCTTCT
GTGGTGTATGGATGCCTGTGTGTGTGAGTGAGATGGTGGGGGGCCACGGCTATCTGGCTC
TAGCACACTCATGGGAGACCAGCTCTGGGAACAACAGGATGGGGTGCTGGGATGGGGGTT
TAAGAGGTCTCTGCTAGATATTTCTGAACTGACCTCCCCAGGTGCCCAACCTGGCCTTGG
GAAGAGAGTGCCTAGGGCAGCGGGGATGGAAACCCTTGCCTGCAGCATAGGTCAGGCCTN
ATGGCCTACACCTTGACCTCTTGACTTTGTTGCCCTGGCCTTAANTACCTGCCCNGGCCG
GCCNNTNTAANAACTAGNGGATCCCCCGGGCTTGCAGGAATTCNATATCAA

Sequence 3968

CCGCGGTGGCGGCCGGGCATTTCTCCCAGGGATCTCTGTGCTTCCTTTTGTGCTTCCTGT
GTGTGTGGATATTTAAAGGGGCTGGAAATGTGCAAAAACATGTCACTACTTAGACATTAT
ATTGTCATCTTGCTGTTTCTAGTGATGTTAATTATCTCCATTTCACAGATGTGTGGCCTC
AGATGGTAAAGTCAGCAGCCTTTCTTATTTCTCACCTGGAAATACATACGACCATTGAGG
AGACAAATGGCAAGGTGTCAGCATACCCTGAACTTGAGTTGAGAGCTACACACAATATTA
TTGGTTTCCGAGCATCACAAACACCCTCTCTGTTTCTTCACTGGGCACAGAATTTTAATG
CTTATTTCAGTGGGCTGTTGGCAGGAACAAATGAAGCAATCTACATAAAGTCACTAGTGC
AGTGCCTGACACACACCATTCTNTTTGAGGTCCCCTNTAGAGATCCCACANGGTCATATG
ACTTCTTGGGGAAGCAAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCA
NGTGGGTCACCTGAGGTCAGGAGTTCAAAGACCAGCCTGGCCAATATGGTGAAACCCCAT
CTCTACTAAAAATACAAAAA

Sequence 3969

AGGAGGATGGTGCCCAGATTTGTATCAGGCACTGGAGAACCTCCCACCTGGTCCATGCCC
GGCTCCCGGTGAGCACCGAGACCCAACCTTGTGCACAGCCAGTCTTGTCATCAACAAACA
GGGTAGTAAATTATAAAAAATAAAATAAAGGAATGTAGCTGGGCGTGGTGGCATGCGCCT
GTAATCCCAGCTACTCCGGAGGCTGATGCAGGAGAATCGCTTGAACCCAGGAGGTGAAGG
TTGCAGTGAGGCGAGATCGCGCCACTGCGCTCCAGCGTGGATGGCAAGAGCGAAACTCCT
TCTCGAAATAATAAATAAAATAAAGGAAATAGGGCCCGGGCATGGTGGCTCACGCCTGTA
ATTCCAGCACTTTTGGTGGCCGAGGCGGGCAGATCACTTTGAGGTCAAANGGTTCGAGAC
CAGTCTTGGCCAACATGGTGAAACCCCCTTCTNTTGCTGAGAATAAACAATTAGCCAGGC
ATGGTGGCGGGAGCCTGTAATCCCAGCTATTTGTGGGGCGGAGACACAAAGAATCGCT

Sequence 3970

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAACCTTTATCTTTTT
TTCACTTCAGCAAACAAAAAATGTCAAATGACATGAAAAGTGGCAAGTCTTCCGACAATA
AATAATAAATTACTTTATAATTTTTGCAATGCAAGAGCAAACAAAAAAAGTTTCCTTTTT
TTTCCTTTTTATTTCCATAGAGAGAGAAAACAGTCATTTTAACCAATAACTATACACATC

Table 1

590/863

TTTGGGGGAAAAGTTCTTGGACAGACACAAGTCAAACACAATCCCGAGACGCTTGTGGCA
AAATAGAGGTAACCTTGTTGCAATGCTTTATAAGTTGGTTTTTAAATCTGAATTCAAAAA
CCTTTAAAGTCGCTTCAGACTTCTTGATAAAGGATGGATCTCAAAAAAAGTGGGGAGGGG
GCAAAGTAAAAAATAAACCAGCTCAGGACAGGCCAAGAGACCCAGGATTTCAATTAACCC
CTTGGTAAAGTCAACTTTAAACATATCAAACCAATGCAGCTCCACCTTCCTGAAANGGAC
TCTTTCAGCCCAAGGANGCCAGTCTCTNTTCCTGCGCTTTTGCTGGAGCTNCTGTTTGGC
AAGGCAATGACCAATNTAGAAACNGCCCCATTCAGATANGATGGACTAGAAAAATTTCTA
TTTTGGTTTTCTCTAAAGGTGCCGNGAAATGGAAATGCTTCTTTGAGATCCTTGAATATA
ATCCTTCCTTTTAAAAACGTTTTTTTTTANTCCTTGGGCGGTTTAAACTAGTGGATCCCC
CGGCTGCAGAATTCNTTTTAAGCTTNTNATCCCGNNACCTNNNGGGGGGCCCGTC

Sequence 3971

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACTATCATCTCTG
TATTGTTTAACAAAATATTTCCACATTTGACAATAAAGTCAGTATTTGAAAGGAGAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

Sequence 3972

GCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATTAAAAAAACAGTTT
ATGTGCAAGGTGTATAAGAAAAGTAAAACATACCTTTGGTAAAAAGATTATAAAGGGGCA
TAAGAATGTGGATTTTTACCTACATTAAAAGGTTAAAAACAATTATTGTTTTAAAAGTTT
AAGCAAGTTTTAAAACGTTAATTATAAAGAAAATTCTGCGTGTAAACATATTAGCTAAAG
TTAAAAAGGTATCATCCAGTTTTTCTGTGAACTGGACATTAAAGTAAAAAATGCCACAGG
TTTTTCTTAAAGCATCAACCTGCTCTTTAACAAAAATTATAAAAGGTTAAAAAGAGTCTA
TAAAATCTTACCTTATGGTCAAACATGAAAAATTGGATAAATATGTCTACAAGGTTTTAT
TAAAATTCAGTTTAAAATTAATAACACACTAATATAAAGGTAAAATTTAGCTTATCTGGT
ATAAAAATCATACAAAGAAACATTATTAAATATAAAATGGGTGTTTAAGCTTTCTTTGGT
CTTAAAAACTAATAAAAAATTGGTGCTAAAGGAAACCATT

Sequence 3973

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGCGCAGTGGCTCACACCTGTAA
TCCCAGCACTTTTGGAAGGCCGAGGTGGGCGGATCACAAGGTCAGGAGTTCGAGACCAAC
CTGACCAACATGGTGAAACCCTGTCTCTACTAAAAATACACAAAAAAATTGGCCGGGCAT
GGTGGCACGCGCCTGTAATCCCAGCTCTCAGAAGGCTGAGGCAGGAGAATCACTTGAACC
CGGGAGGCAGAGGTTGCAGTGAGCTGAGATCATGCCGCTGCACTTCAGCCTGGGGGACAG
AGAGAGACTCTGTCTCAAAAAAAAGAAAAAAAGATGAGGAAATAATCAATCTTCTTCTGA
TCAATTTGTCCATAGTTCTGGAAAAGCTACTGCACAGAGCAGGAGAGGAAACTATTTGCT
CTCTGTAATACTGAAAAACTGAGAGTGCTATTTTAACTTGTCAATAACTAAAAGGTACCT

Sequence 3974

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAAGGGAGA
GAGCTGTGCGAGCGTGGGGGAGAGTTTTTCGTTGGAATATACGTTGCACATTTATGGCGA
TTCTGAGTGTGAGGGCAGACTTCTGCCAGGCTCAGCACAGCATTTTCGCTGACAAGTGAG
CTTGGAGGTTCTATGTGCCATAATTAACATTGCCTTGAAGACTCCTGGGCACCGAGACTG
CCTCAGAAATAGTTGGCTTTTTTTTTTTAATTGCAAGCATATTTCTTTTAATGACTCCAG
TAAAATTAAGCATCAAGTAAACAAGTGGAAAGTGACCTACACTTTTTAACTTGTCTCACT
AGTGCCTAAATGTAGTAAAGGCTGCTTAAGTTTTGTATGTAGTTTGGATTTTTTGGAAGT
CCCGAAGGTATCCATCTTGCAGAAATTGAGGCCCAAATTGAATTTGGGATTCAAGGTGGG
ATTCTAAATACTTTGCTTATCTTGAAAAGAGAAGCTTCATAANGAATAAAACAAGGTTGA
ATAGAAAAAACACTGATTGGATAATANGCATTTTANTGGGCTTTTTAAATGTTTTCTGCT
NGGAAACAATTTCAAGAATTTATTGGATTTTTTTTT

Sequence 3975

CGCGGTGGCGGCCGTGCGTAGACTAGTCAAGCTTCTGGTGTGTGACTAGAGCTGGGCTTG
TCGTCCCCTCCAGCTTCAGCTGTGCATAGACTGGTCAGCCTCCAGAGTGACCAGAGCAGG
GCTGTCGTCCTCAGCAGCAGCTTGGTCTCATCTCAGGATCGGCTGAGTTGGATGATCTGG
GTCTTGCTGGCTGTTCCACTTGTCCTGAACTGCTGGTTTCAGCTGACTGTGGTGGACCTA
TGGCATGATTCCTGCAAATTTAACAGCAAGTGGGAGTGGACAAGATTACAGTACCT

Sequence 3976

CCGGGCAGGTACGTGAGGAAGAAACCCGGAAGGGGAAGAGGAAAGCAAAGGCGTCAGGAA
TGGTTCTTCCTCAGGGTCTATTGACATTCAGGGACGTGGCCATAGAATTCTCTCAGGAGG
AGTGGAAATGCCTGGACCCTGCTCAGAGGACTCTATACAGGGACGTGATGCTGGAGAATT

Table 1

ATAGGAACCTGGTCTCCCTGGGTGAGGATAACTTCCCTCCAGAAGTGGGGATGTGCCCTT
GTGGATCTTTGTATTTTCTCTTGTTTCTCTTGGGAGTTGCATCCTTGCTTGACTAAAATG
GAAGCCGTATTGATTTTGAAATGAAAAGCTTCATGATGTAGCATCT

Sequence 3977

CCGGGCAGGTACTGGGAACTAAATGGTTGGGGGGGTGGTGGGGAGTCAAAACTATTTTGT
GATATGTTAAAATACATGAAATCCACATTTCAGTGTTAATAAATAAAGTTTTATTGGAAC
AGAGCCATACTCATTCATTTATATATCATCTATGGTTGCTTTCCCATTATAATGACATAG
TTGAGTAGTTGTGACAGAAACTATGTCTCACACTTTGGGAGGCCAAGGCAGGTGGATCAT
GAAGTCAGGAGTTCAAGACCAGCCTGGCCAAGATGGTGAAACCCCGTCTCTGCTAAAATT
ACAAAAATTAGCCAGGCGTGGTGGCGGGTGCCTGTAATCCCAG

Sequence 3978

CCGGGCAGGTACTTTCTTAAATAAATGTGGTCATGTTATACATCATTTTAAGCATATTTC
TCACTTTTTTTTGCTAATGACTTATTGCTGTTTATATTTATTTTAGACTATGGAAATGAT
GTTAGACAAAAATCAAATTTAGCGATTTTCTGAGTTCAAAATAGGTTATAAAGCAGCAGA
GACAACACACAACATCAACAATGCATTTGGCCCAGGAACTGCTGATGAACATACAGTGCC
GTGATGGCTCAAGAAGTTTTGCAAAGGAGACTAGAGCCTTGAAGATGAGGAGTGCAGTGG
CCAGTCATCGGAAATTGATAATGACCAATTGAGAACATCATCGAA

Sequence 3979

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACGCGGGGGGTGTCGCAG
GAGCATATCGAGACCGCTTACCGCATCTGGCTGGACCCTGCATTCGTGGCGTGTGCAGAC
GAAAACTGCAAAAAGAAATCCCGAATTGCTTGGTTGGTATTGGTGAGCATATTTGGTTAG
GAAAATAGATGAAAATAGTTTTCATAACATCGATGATCCCAACTGTGAGAGGAGAAAAAA
GAACTCATTTGTGGACCTGACTAACCTTGGAGCCACTTGTTATGTCAACACATTTCTTCA
AGTGTGGTTTCTCAACTTGGAGCTTCGGCAGGCACTCTACTTATGTCCAAGCACTTGTAG
TGACTACATGCTGGGAGACNGCATCCCNAANAAAAAAANNNNAAANNNNNNNNGGTNCCT
GCCCGGGCGGCCCGCTCTAAAACTA

Sequence 3980

CCGCGGTGGCGGCCCGAGGTACTTTNTTTTTTTTTTTTTTTTNTNTTTGCCTTGTGGTTC
TTAACTTTCTAAAGGTCATTGACTCCTTGCAGCATGTGTTACTANAAATGGATATTCTGG
CTGGACACATTGGCTTACGCCTATAATCCCAACACTTGCAAGGCCCGAGGCGAGTGGATC
AAGTTGAGGTGGATACATTGCAAATAGCCTAGCAATCATGACAGATGCACTTCATATGTT
AACTGACCTAGGCGCCATCATACTCACCCTGCTTGCTTTGTGGCTATCATCAAAATCACC
AACCAAAAGATTCACCTTTGGATTTCATCGCTTAGGCTGGAATACAATGACACCATCATG
GCTTACTGCACCGTCGAACTCCTGAGCTCTAAAAATCTTACCCTCGCAACCTCCAAAGTG
GGCTGGGACTGCATGCATATACCACCATACCCAGCTAATTTTTTAATT

Sequence 3981

CGCGGTGGCGGCCCGGTTTTTTTTGTTTTTTGTTTTGTTTGTTTTTGAGACAGAGTCTCC
CCCGTCCCCCAGGCTGGAGTGTAGTGGTGCTGTCACGGCTCACTGCAGCCTCAACCTGCC
TTCCTGCCTTAGTCTTTGGAGTAGCTGGGACCACAGGTGTGAGCTGTCACACCTGGCTAA
GTTTTAAATTTTCTTGTAGAGACAGATTCTCGCTTTGTTGCCCCAGCTGTTCTCCAACGC
CTGGACTCAAGCAATCTTCCTGCCTTGGCCTCCCAAACTGTTGGGATTATAGGTGTGAGC
CACTGTGCCTGGTCTCCATGTCTGTTGTGTTTATCACTGTGTGGCTGACATATAGTAGGT
GTTTTTTTGTTGGTTTGNTATTTTGAAACAGAGTCTCGCTCTGTCACCCAGGCTCGAGTG
TAGTGTTGTGATCTCGGCTCACTGCAACCTCCACCTCCCAAAGTTCAAAGAGATTCTCCC
ACCTTAANCCTCCCGAGTAGCTTGGGATTACANGCATGTGCCACCACACCTNGCTAAATT
TTTGTATTTTTAAGTAGAAGATGAAGGTTTCANCCATTGTTGGCCAGGGGTGGGTNTTGA
ACTCCTGGCCTGGTTGAATCCCNCCTGTTCNTTGGGGCCTNCCCNAATTGGCTGGGGACT
AAANGTTTTGAGACACCCAAACCCNGGCCCAATTTTTTAAATT

Sequence 3982

TAGGGCGANTGGACTCCCCGCGGTGGCNGCCGCCCGGNCAGGTACTAATGAAAGGCACTA
TTTCCATGAAACCTCNACATATTTTATCTTAGGGTTGACATGTTATTTCTCACAGTAAGA
ATCTGCGCTTTAGTGGTTTCATAATTAGGTANAAGCANATGCGGTTATAAATGTAAGACA
GTTATAATTGTTAGNGGTCTATGCCATCCTCCATGTGCATTACCCAGATTTAAATTAGCT
TTTNAAGAAAACCCTGATGATAATG

Sequence 3983

NCGCCCGGGCAGGTACAGGTAAGGCAGAAGGAAGGAAGGGCAAAGAAACAATTCCAGGGC
CCTGGTTTCTGGGATGACAGGCTTCCCAACACTCATGCCAGGACTATTTTCCACCTCGGT

Table 1

TCACTATGGGTTTTTTTTCTTTTTTTTTTTTAATATAATGAATTTTTAAAATGTGCGTTTG
TTGCCCAGATTATTCCAGAAAGAGTTGAAGGGAGGAAAGGTGTGCTTGGTGTGCTGGTGA
TTCTAGCACTCTCTCCAGCCTGATTTCTAGTTTGTGTGGTGCATCCAGACAGCTCACCCA
GGTGCCCGGGCTCTTTCTGGTATCCAGAGCCAACCCATCCAGGGCAGGAGGGTGAAGATT
AGGAGGGGCAAAGGTTAGCCTGGAGGTTGCAATTAACAAGAATCAAAATGGGTTTCAGGA
TTCTCACACCCAGTTGCTAATTTCAGCTGGTCCTGTAGAGGTGACACGTAATAGGACAAC
ATGGTTTTGGGGGCAATGCTGGGGTGCTGGTCTCTGCTTTTCTAGGGGTAGAAAGGAATC
ATCATTTGGAAAATTCTTAAATCGATGGAAATGAATTTTATGTTCCCTNATGCTTCCATC
TNTTTCTGGGNTTGNCNTGCTNTTCCTGCCANCCCCTTACTTGTGGANAGGTNACCCACT
TNCTTAAACTTNTGTNTTTNGGCATTTTCCCANGAAAGGAAAANTTGAAAAGGAAAGGAN
AAAAAAACCTTATTNTTTGGTGCCCAAAAATTNNNCAAAAAAAAAAAAA
Sequence 3984
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACATTTTACTCCTGCTCTA
AAACTTGCCTCAGTCTCTCACTGTGCCTTATGCCCCTCAGCTGAATTCTTTCTTCTGAGC
AGGCAGGAATTGAGGTTGCTGCAGACGTGTATGCATTTGCCACCAGTAACATCTTTTGGT
GCCACATGACTAGGATATGTTCTCTAGTGCTAACATGTTCGTTTACAGTTCTTAGGACTC
CCTGATAGAAAAAAACACANAAAAACACAAAAAAACCCACCAACCAAACAAACAAAAAAA
ACACAGGAGTTTCTCCCAAAAAGAAGTCTGCAGTGTCTTTTCTGTTTTCTCTGAAGGTAT
CCCAGGGTGTTAGATTTCTGGTGGTTTTCCCTTATGTGGCACCGAAAGTTGGCAAGAAGA
AGGAAGTGCTTATATAAATAAATAGGGGAAATGAACAGAGAGAGTACCT
Sequence 3985
TTGGCGGCCGCCCGGCGGTCCCCGGGGGGNTCGAGAGAGGGATCGTGACCGGGTTAGAGA
ANGGNNCTCATATCGTANTANGGATCGCAGTCCATCAAGAAGAAAAANGCNNAGATCGTG
AAAGGGAACGAGAGCGNGAAAGAGAGAGGGAAGAAGACCGAGNGCCNAGAACCTAGAACC
GGGNAGCCCAAGAGAGAGAGNCNAGAGGGGACCNNGNANCCGAGAAAAGGAGAAAAAAAG
ACNAAAAAAACCNGGGCCCGAGAAAGAAAGANCGAANAAANATGCNTTCCGAACCNAAANA
AAAACTTGGAAAGAAAACCTTCCGAGAGGAAAAGAAAGCTGCTTATTCAAGGAAGCCGCC
TTAAGAAATTGGNGAAATCAGAAGAACCGAAAGAAAACCCGGGAATNTTGAAGAANAGAA
NCTTGANTGGANAAGAAGAAAGAANAANAGAAATTGGCCAAAGAAGCTTAACCGACTAAA
AGAATTCTTAGAAGACTNTTGATGATGATAGAGATTGCCCCAAATATTACAGAGGAAGTG
CTCTTCAAAAAAGGTTGCGTTGATAGAAAAAAGGGAAATTGGAAGCNNATGAACGANATN
TGGAAGAAGANGGGAAGGAGGAGCTTTGANGGAAATTAGGCAGCGCCTTNTTGGCCGAAN
GGGCNTTCNNAATCCCGATTCCCGAGCTTCCCGANGGNTGGAACCAAGAAGCTTGANAGG
CNCNNGCCTCCCCCAAATTAAAGCCNGGAGCCCGAATTCNNAAGANGGNGGGAGAAGAAA

Sequence 3986
CGAGGTACCATCCTGGGGTTTTTGTTCAAAAAGAAAAAGAAAAGAGGGTAAAACAGTTAT
TATAAGAATTCTTAGAACAGAGCAAGTAATTGGCAATAATTTTTTTAGCTCTAAAAAAGA
AAAAAAAAAAAGGTGGTGTGTGAGCCGAAAGTTTACCGGGCCACCACAAATACTTTCAGT
AGGAATTTAATAAAAATTTGGGTCCATTTTATGAACACAAACGGCGAGCCAGTTTTCTTT
CTTTTTTAAAAAATCAACTTTCTGAAGCTCTTCTTAAGATTTTCTTCTAATGAACCAAAA
GAACATCTGCAGCATGACACACTGGCTGATGAAGCATGACACTTTTAACATTATTTAAGT
AAAATAAAGATTTAGGTAAATTAGAAAAAAATCAGAAGTTAGAAATAAAAGCCATGCCCT
TTAAAAAGTGGAAAACCCAACTCCTGTAATTGAACTACAGTAAAAACAGANGCNACTTTT
TTGGATGGTTGGTGTGCCCCCCCCAAAAAAAAAAAAAANGAAAAAAAAGTACCT
Sequence 3987
CGCGTAATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCA
GGTACTAGAAGCAAAATATTAATCTTTGTGATTATTACTTCTCCAAACTAGAGGAGAGAT
ATCCAAAAACCATTTCATGAAAATAACTAGTTGATTCAGGGGTATGAAAATCAGTCAAAC
TGGATATGGAATTATTATCTTCGAAGGAACCAGAAAACCAATCAAATATCTTGCTTTCTA
GATGACAGTGCCAAGATCATATTCACTGAGCAAGAAACAGGTAACAGTGACTAAGGGTTA
CCAGGCTGGAGAAATAAATTTCAGGGTAACAGAAATGNTGATTATTTTGTAGGGTGGGCT
TAGATANGGCTGGAACCCAAAAAAA
Sequence 3988
CCGCGGTGGCGGCCGCCCGGGCAGGTACATGCAGATTAATGTTGTTTTCATGCCTGCAAA
CACAACATCCAATCTGCAGCCCATGGATCAAGGAGTAATTTTGACTTTCAAGTCTTATCA
AGAAACACATTTCATAACACTATGTATGGCTGCCACAGATAATGACTCCTCTGATGAATC

Table 1

TGGGCAAAGTAAACAAAAAGCCTTCTAAAAAAGATTCATCGGCCAGGTGTGGTGGCTTAC
ACCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCAGATCACCTGAGGTCAGGAGTTT
GAGGCCAGCCTGGCCAACATGGTGAAATGCCATCTCTACTAAAAAATGCAAAAATCAGCT
GGGCATGGTGGCGCATACCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGAATTGCTTA
TACCCAGGAGGTGGAGGTTGCAGTGAGCCAAGATTGTGCCGCTGCACTCCAGCCTGGGTA
ACAGAGCAAGACCCTGTCTCCCCCTAAAAAAGATTCATCATTCTACATGTCATTAAGAAC
ATTTTTGATTCATGGGAGGAGGTCTTAAAGATATCAACATTAACAGAAGTTTG
Sequence 3989
CCGCGGTGGCGGCCCGCCCGGGCAGGACTCACCGTTTCTCTTAGGTAAAGAGCTAAGAGT
GGAATTCCTGGGTTATGGGATAGATATATGTTTAACTTGGTAGGAAATTGCTAATTTTTC
AAAGTGTTTATATCATTTTACACCTCCATTAGGAAAGTATGAGTGATCATTTCTCATCTC
ACCAACATTTGGTATTGTCAGGTGGGTTTNTTTTTTTTTCATTTAATTTTGGGGAATTCT
AATTN
Sequence 3990
TGGAGCTCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCGTAAAAC
CGTAGTTCTTGTCCTGCTTTCCTGGCTTCCTCCAACTGCCTNAGGGCCATTCGTAGCTCT
TGAGAGACAATTCCTGGTGAGTCCCGCTCCTTCATGATCCAGTCCAGGGCCATGTGGCTG
CCCATCTTTTCATCTAGAGAATACTGAGAATAGTAGGAGATGACTTCCTGTCGGGAACAC
TTTGTTTCACGAAGGGCTTTTAGGCTTCCATTCCAGTGCAATAGTTGGAAGATGGTCATC
AGCTCCTGAAACTCCAGCATAGTCTTCCCC
Sequence 3991
CCGCGGTGGCGGCCCGAGGTACTGAGTATAAAACAATATAAAACAATATGAGAAGGTCTC
TCTCTTCCCTCAAGAGTGTATGACTTTGCTGCCCAGGATGATCTTGAACTCCTGGCCTCA
AGCTATTAATTTCTTCCCAACTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAACCAT
AGCGCCCAGCTTAACAGGATTTTTCAGAGAGAAAAAGTTTTTTAATTTTAATGAAATCCA
CCAATTTATCTATTTTTTCTTTTACGGCATGTGCTTTTGGTGTAATGTCTAAAAACTATA
CCTACGCCTAGGTTGTAAAGATAGTCTGTTTTCAGTTTTATAGCTTTCCATTTTACATTT
AGATATATGATCCATTTTGAGTTAAGTTTGTATTACATGTAAGGTTGGGGTTCCTTNGTT
TTGGTCTTTGACAAATGGGAAGTCCACAACATTTATTGAAACTCTTCTTCCTCCATTGGT
TNTAAAGANAAATCCGTTGGCCATACTTCTGAATGTCTATTTATGGATCCCTATCTTATT
TTATTGATGNGTATTTTTATCTCTCCTCCATGGGAT
Sequence 3992
CGAGGTACCATGACCCTAATGTTAATGGAGGAACAGAATTAGAACCTGTTGAAGGGAATC
CATATAGACGCATTTGGAAAATAAGTTGCTGGAGAATGGCAGAAGATGAGCTTTTTAATA
GATACGAGAGAGCAATTTATGCAGCTTTAAGTGGGAATCTTAAGCAGCTGCTTCCTGTCT
GTGACACCTGGGAAGACACAGTTTGGGCCTACTTCCGGGTGATGGTGGACAGTCTGGTAN
AACAAGAGATCCAGACATCAGTAGCAACTCTGGATGAAACTGAAGAACTCCCTAGAGAAT
ATCTGGGAGCAAACTGGACGTTAGAAAAGGTTTTTGAGGAACTTCAAGCTACTGACAAAA
AGAGAGTTCTGGAAGAGAATCAAGAACATTATCATATAGTTCAAAAGTTTCTTATCCTGG
GAGACATTGATGGTTTGATGGATGAGTTTAGCAAATGGCTTTCCAAAAGCAGAAACAATC
TACCTGGACACCTGCTTCGCTTTATGACTCACCTTATTTTGTTTTTTCCGTACCCGCCCN
GGCN
Sequence 3993
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCNCGAGGTACCAGTTTTGTGCTGGTT
GGCCTCCTGCCAGGAGGTGACGCTTTCAAGGGAGCAACAGCTGTGGTAGCATAGGAAGAA
TCANGTGGTGAGCAGGGCCCTANAACTCACAAGAGAATATGACCTTTGTCTTAGCTACCA
GGGTGGGTAGAGGAGGACCATCAGGTTGGGGCAGGGCTAGGTGCGTCTGAGTTCAGACTC
TCTATGGGCAGGTCTTGCTGTGGCTGCTGTAGGGGATGGGGGTGGGGTTCCCAGGTCACT
AGAGTTGTGTGCCTAGGAAGATTATGGCTACCTCTGCTGAGTCACGCATGTTGTCAGGGA
AGTGGGGGAAAGCTGGCAGTCACAGGCCTCACCCANCTGCCATGCAAACTGAANGGCCAG
TCTTACTTCCACCATGGCCCCCAAAACTGTTGTGCCCGAGCGAAGTTAAAAAAATGCCAC
ACTTTGAGATGAAATTAAGAGTCCTTTATTAGCCCGCGACCCGAAAAAATGGCTAACGCT
CAAAAATTCTCTCGGCCCCGAGGAAGGGGGCTTAACTTTTATATCTTGGTTTAAGAAGG
Sequence 3994
TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGAAAT
ACATATATTTCATAAGGTTCAGTTACAAAATGGATTGTTTCAAATGGCAATTTCTTACAC
TAACCTGATTATGAAAAAAAGAAGTCTGTATCATCTGCTTCCAAGTCTGTTATGTCCAAA

Table 1

TATATTTTAATTATGCATTTATTTTGCTACTTTTATAAATATTAGAGATTTCACCTTAAA
TTATTTTTGTAACTAGTTCTAGAACATGTTTTCCAATTATTATTTTTCTAATGGAGACGT
ATAATTGACCTATGTTTATGCATATATGTTCTCTACACAGTGAAACTTTTTTTAAAAAGA
ATAGTAAAGAAAATGCGGAAGCTCTGGCTCTCCAAGGCAAAGTCAAAAAAAAAAGCGGGG
GGGGATGCGAGGAACATTTTATTACACCTCCTGATTTTCACTCCTTGAGTTTTATTTTCT
CCCCTTGTTTATTTGTTTAATGCTAGAAACTGTATTCCTAAGAGAGCATACCTCTTTCAG
GTGAGCATGATAATTGGGAAGATTTTGATACTTAAGAGTATGAACCATATAATTAAGAAG
TGATTACCTAATAAAAGATAACAATGGTGACTATTTTAAATTATTTTGGTGGCAGGGGAG
TTGGGTTTTACATCACCCAAAAAAAAAA
Sequence 3995
CCGCGGTGGCGGCCCGAGGTACCAGCTAACGCATCTGGGAGGCAACAAAACAATACTCTC
CTGAGGTTAATGTGGACCAAAAACTAGATTTCATATAAAAGAGTTTATTCCTTCTACTTG
AGGTGTGACATGAAGGAAAGTAATGGAAATAATTCTGCCCTCCCATTCTCAAGGGCCAGG
GGGAATTCAAATATTGAACGGAAGTGATTTTGGAATTGCATGGAATTCTCACTGCCATCC
CAAAGAAATGCTGATCTTGTCACTCTTACCTGTTTCATTCCCTGGGGGCAGAACAAAAGG
ACGCACTCCAAAGATCGGCATGAACCAAGAACTGGGTTTCATATAAAATATTTTATTCTG
TCCTCTTGAGATGTGACATGAGAAAAGTATTGAGAATACTTCTATCACCTCATCTTCAAG
AATCCGTAGGAATTCTCCCATGGTGGGACTTTACGGTTAACCTGAACAGGTCTTGGAAAA
AGGACTTTAAACATTCTCCTGTTCTGTGGAATAAGTATACTTTTTTCTGGACATACACCT
TGTCAGTGAGTTCCATGTGATACTAGAGTTGCATAGATTTTTAACCTTTACGCCAATGAA
GATCTGAGGCAAACATTGCCCTT
Sequence 3996
CCGCGGTGGCGGCCCGCCCGGGCAGGTACCGTGTTATGCAAATTAAGCACTTTTCTTCTA
AATTCACATGAACTTTTAGAGACGTAGACTATGTTATTGAAGTAACTCATCCTAAGTGTC
TGTAGTGATTGGAGATATTCTTGCTTATCAAATTGAAGTATTTATAAGTGAGTGACGTGA
TGTCTGAGATCTATCTTAAAGTAATCCAGTAGGGCAAAGATAACTTGAGATTGGCCAGTT
CTTGATAATTTTTGAAGTAGGCTGATGAGTACGCGGGGCTTCCTTTTCGATCCGCCATCT
GCGGTGGAGCCGCCACCAAAATGCAGATTTTCGTGAAAACCCTTACGGGGAAGACCATCA
CCCTCGAGGTTGAACCCTCGGATACGATAGAAAATGTAAAGGCC
Sequence 3997
NCCATGCAATCATTAAGGAGAACCAAAGTAAGAGAGCCACTCAAACCAGATTTTGAACGC
TACTAAAATTAAAGTAGTTCTTTGATGAATATGAATGAGTAGGGAAAGGATTCTTTGTAA
TAGTGATACCTCTGTGGTAAGAGAAGGGTGGTATGTGAGTTTTAGTCTACAGATTATGGC
AAATTCAGTGACAACAATCAAATGGTCTAAGATTGACAGTAGCACAGTTTTACTCTGTGA
AGGTAATGTTCAGGACAAATTTCAAGAAAACTAGAAAACCATTCTTTACAGCTGAAATCT
TTCCCTAACCATTGTTATTTCCACTTTTAAGTCCTCAAGAGATGAGAAAAGGGAGGTAAG
GCTTCCTTATACATTTCCTGCACAATGAAACATTTTTCCTNCTCCAGGCAAAGATTCAAG
CAGAACTGGCAAATATCTTATCTTGCTCTTCTCAATAATAATAATGGTGTTAGATAATAA
AGTTCTATAGCAANTTTAACCCTAGAATCTTTTTGAAAAGTAATTCTTTAAAGTTGAGAA
TCACAGCTGTCTACCAGCATTTCCTTGGGCCCCTTGAAGCTGGTTATTCACTTTGGNCTT
TCCTCCCAGGGG
Sequence 3998
TAGGGCGAATGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTATTTCATGTA
AACTGCCCCCTCTGAGGATTTGGGCATATTTTTTGGAAGGTGCCTAATGCTTAGGATAGTC
TCTAGGGTGATGCACTGCACCTGCTTCCTTCCCTTCAGTGCGGCTGACCCATTTCTGTTG
AACAGATGTCTCCTGTGTGATGCCCCTGACTCTTACATTTATCTTTCTAAATCATTTTCT
GAAGCTGACTTGCTCTAGGGTGCTTCATCACCACTTCCATCTTGCATCACCTTATAACTG
TTCTGTCTTGTTCTCTCCCAGCAATTTATTTTAAAACAAGGGCTAGCTTCAAGCATGACT
GTTAATGGCTCCTCTGTGACAAAACACAAGTTGGACCAAGGAGAAAGCCCTTTGGAGAAA
CTGGACCCTAGTTCAAGTTTANATCTCAAATATAGGCTGAAATCTCTTACCAAAGTGCGT
TCCAGATAAA
Sequence 3999
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTAAAACCTAGTATCTT
TTTCTCTTCTATGGAAAATCCGAAGGTCTAAACTTGACTTTTTTGAGGTCTTCTCAACTT
GACTACAGTTGTGCTCATAATTGTCCTTGCCTTTCCAGCTTAATTATTTTAAGGAACAAA
TGAAAACTCTGGGCTGGGTGGAGTGGCTCATACCTGTAATCCCAGCACTTTGGGAGGCTA
CGGTGGGCAGATCATCTGAGGCCAGGAGTTCGAGACCTGCCTGGCCAACATGGCAACACC

Table 1

595/863

CCGTCTCTAATAAAAATATAAAAATTAGCCTGGCATGGTAGCATGCGCCTATAGTCCCAG
CTGCTCAGGAGGCTGAGGCATGAGAATCGCTTGAACCTAGGAGGTGGAGGTTGCATTCAA
CTGAGATCATACCACTTCATTCCAGCCTGGGCGACAGAGCAAGACTCTGTCTCAAAAAAA
AAAAAAAGGAAAACTCTGTGATGGACATTTGTTTAGTAAATCCCTTCAGTATTTATCCCT
CCTTTCCCCACAGCAGCTTTCTTTNCTGTCAACTAGAAAAGGAGCAGGATGTAATAAATC
ATTTTGGTGTGACTAGGCCACCCACTCTTAATCATCTTCCATTTTCTTAAACATTTAAAT
TTCAAGGCANGTACNCCGGGGGGAACTCTTGCACCCTTNGGCTGGGGAAGGCTTTGGGAA
AGTCCTTTAAAGNTGGAGTCTTGGCCTCTTAAGAAATTTGGCCNAGTGCCTTAAANNCCA
AAAAACCTGANTGNCNAAATTACTGGCATNTTCCANGGAAAAAA

Sequence 4000

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATTGTTTTAGAA
GATAATTTGTTTTTCTCTCTTCAGTTTCGCATATTACTAAAGACAAATCATGGTAGGATT
GGTTTGTTTATTATACTTGGCCTAACTATTTGTATACAATGCAGCAAGAATGATTATTTT
TTACTTAGGCTTTTAAGTAGGCTCTGATGGAACTTTGTTCCATAGCAGGAATCTCAGATA
AGACTTTGTAAAACCCGTAAAACCCACCCGAGCCATGGATTTATGCCATTAAATACCCAT
GAGTTGGGTGAAATTTCCTCTCCTTTTGAGGGCCCAAGATAAACCTGGGGCGTCTGCACT
TGTCAAAAAGTGATATTCTTTACTTACACAGTCAGAAACCCTGTTCAGGGACTGTGTATA
CAGAATATGAGGCCAGTTTTTCCAAGGGCTTTATTGGCTCCGTAAGTCAAGTTTG

Sequence 4001

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGCTCCCAGTGGCGGGACACGG
TGGCTTATTTTTACTCTTATTTATTTATTTATTTTTGGAGACTGAGTCTCACTCTATCAC
CCAGGCTGGAGTGCAGTGGTGCGATCTTGGCTCACTGCAACCTCCACCTCCTGGGTTCAA
GCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCGCATGCCACCACACTC
GGCTAATTTATTTTTACAAGCAGATAAAGGTTTCTTTTATTTTAATGGCTGATCTATGTA
ATCACGGAGGCCAGNATGTCATTAGTTCCCGTCCGGAAAGGCGGAGACAGCTCAAAGCAA
GACCCCCTATTGGGGGCTTCGAAGTAACAGGTAGGTGAGAGACAGATGGTTGCATTCTTT
TGAGTTTCTGATAAGTCTTTCCAAAGGAGGCAATCAAATATGCATNTGTCTCTGTGANCA
AGTGGATGACTTGAATAGAATAGAAGGCAGATTTTGCCCTGAGCAAGTTCCCCATCTTNG
AGGGGCCCAAGAATTTTTTTTCTTTCACAATTTTCCC

Sequence 4002

ACAACAGGAGTGAGTGGCAGGTGAGTGAGCATCACCACCCGAGCTCTGCCTCCTATCAGA
TCAGTGGCGACATTAGATTCTCATAGGAGCACGAACCCTATTGTGAACCGCACACACAAG
GCCAGCTCCTTATGAGACTCTCATGCCTGATGATCTGTCACTGTCTCCCATCACCCACAG
ATGGGACCATCTAGTTGCAGGAAAACAAGCTCAGGGTTCCCACTGATTCTACATGATGGT
GAGTTGTAGAATTAGTTCATTATGTATTACAATGTAATAATAATAAAGTGCACAATAAAT
GTAATGCACTTGAATCATCCTGAAACCACCTCCACCCCCAGCCTGGTCTATGGAAAAACT
GTATTCCATGAAACCGGTTCCTGGTACCT

Sequence 4003

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGGCTTGGAA
GCAGCTCTCTCCTCCTTCCCCGCTGCTTATAAACCTCAGCCCTGAGGCTCCAGCTCACTC
TACCCCATCTCCTTGCCGGGTCAGCCCTGACAAAGGTCAGCTAGCCCCTTGAGGACAATC
AGCTTTGGCCTCAAGGGGTCCTTAANNGGCANTNAGAAACCACTTGANNAGAAGCTTNGA
AGGAAGTCCATTGGAGGACCCGTGGGTCACCACCCTTCTTCACCTTTGCAAAGGCAGNGA
GGGGGCNNGGAAGGATAGCCTCAGCCGTCAACGAAGTTCAAAAGGAGCTGGTTACCCAGC
AGTTGCCCCCATCTGCTCAAGGATGCCGGGCTNTNTTGATGAGAAGATGAAGA

Sequence 4004

CGAGGTACATCTACTTAAAGGGACTATTATGTGGAATAATACATACTAATGAAGTATTAC
TTGATTTAAAGACTACAATAAAACCAAACATGCTTATAACATTAAGAAAAACAATAAAGA
TACATGATTGAAACCAAGTTGAAAAATAGCATATGCCTTGGAGGAAATGTGCTCAAATTA
CTAATGATTTAGTGTTGTCCCTACTTTCTCTCTCTTTTTTCTTTCTTTTTTTTTTTATTAT
GGTTAGCTGTCACATACAACTTTTTTTTTTTTTTGAGATGGGGTCTCACTCTGTCACCAGG
CTGGAGTGCAGTGGTGCGATCTCGGCTCACTGCAACCTCCACATCCCATGTTGAAGTAAT
TCTTCTGCCTCAGCCTCCCGAGTAGCTGGGACTAGAGGAACATGCCACCATGACTGGCTA
CTTTTCTGTATTTTTTAGTAGAGACAGAGTTTCACCATGTTGGCCAGGATGGTCTCGATC
TCCTGACCTCGTGATCCACCCGCCTCAAGCCTCCCAAAGTGTTGGGATTACAGGTGTGAA
CCACTGTGCCCGGCCTGTGTCCTGCCCG

Sequence 4005

Table 1

ACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
TTTTTTGGATCCAGCGCTGGCTAAAAAATGTCACGTTACCCTTTTTTTCCTTTTTGTGGA
GATGGGGGCCTCACTATGTTGCCCAGGCTGGTCTCGAATTCCTGGGCTCAAGTGACCCTC
CTGCCTCTGCCTCACTGAGTGCTGGGATTACAGGTGTGCGTCACCACACACTATGCAAAG
AATTTTCTTAACGAACCCAACCACGTAAACAGCATTCAGTTCAACAAACAGAACATAACC
AGTCCCTAGAAGCCCCTTTTACATCTCCTCCATCACTATACCCTGCATATATATACTATA
CATATACAGTATATACATATACAGCATTATACATGTATTACAGGTATATACAATATTACA
TATAC

Sequence 4006

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACTGTGATGCACTAGA
GCCCCATGCTCAATCTTCTTTTTCATGTCATAAATGTGAATTGTTTCATCTTTGCTCCCA
GTGACCACAAAACGACTATTTACAGCTACTGCTGACAAGGAGGCAGTGTGAGCATGGTGA
GTGAAGTCAGCCACAAGAGTCCATTGCTGTTGGGGAGCTTGGTTGTTGGAGACGTGAGTC
TTGCCGAAGATCC

Sequence 4007

TTGTTTGCTTGTTTCCTTGCCAGCTTCACATTTTACAGATTCTCATAATAATTCTAAGAA
TAGCTCTAATATGGTTTGGCTGCCCCACCCAAATCTCATCTTGAATTGTAACTCCCACAA
TTCCCATGTGTCATGGGAGGAACCTTATGGGAGGTGATTGAATTATGGAGACAGGTCTTT
TCTGCGCTGTTCTCATGATAGTGAGATCAGTCTCATAAGATCTGATGGCTTTAAAAATGG
GAGCTTCCCTGCACAAGCTCTCTCTCTCTCTTTGNCTGCTGCCATTCATGTAAGACATGA
CTTGCTCCTCCTTGCCTTCTGCCATGATTTGAGGCCTCCCCAGCCATGTGGAATGGTAAG
TCCATTAAACCTCTTTCTTTCATAAATTGCCCAGTCTCAGATATGTCTTTACCAGCAGCA
TGAAAAAGG

Sequence 4008

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTT
TTTTTTTTTTTTTTGTCCAGGCCACTTTTATTTAAACAGAAGCAGNGGCCCCACAGCCAC
GGGGACATGTNTTCCAGACAGTAGACACAGTGCCTGTGGCTGTAAGAGNCTGACNGGGAA
GATTTATGCCTTTCTTCCTTGGGCCCCCCATGAACCNAAAGGAAGAAAAANTAAAAAATN
ACNNCTACCNTNCACTGNNCACACCCATNTTTNAACCCNCTTTGCCCANAAATAGTTTNG
AACCNCCTAGGAAATGGGNAATTTCAATCCAGGNCTNAAAATNCTAGAAAAANANAAAAA
AGNGGTNNTTAAANGAAANCACCTTTNTNCNTANCAAGNTTTTTCCAAGAAAAGAAGTTG
GAGGCNTTGNTTCTCTTGGGCNTTGNAGGGGGGTNTTANTTTTNCAAATAAANGCNACCC
CTTAACAATTGGTNNTTGGGNACCAACTTAAATTGGGTTGGAGGTTTCATTNNAACCCAA
GGAAGGGGAAAGGAATG

Sequence 4009

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGAGACACT
ATTCTCTCATGAAATAGTTTTGGCACTCTTGTAGAAAATCAGTAAGCCACAGATGTATGA
GTTTATTTCTAGACTCTTAATTCTATTCCATTGATCTATATATTTATCCTTCTGACACAN
CCNCTNTATTTTTTAATTACTGGGAACTCTTAAAAGTAGTATTGGTTTTGAAAGTTTGGG
AAAAGNTGTGAAGCNCTTCCTAAACTTTTCCCTNCTTCCTTTTATCAAAAGACTGGTTTT
TTTGGCTTACNTTCTGGGAATCTCTNTGGAAATTTCNCATTACCGAATTTTTTAGGGGAT
CNAAGCCTTTATNAAANTTTTCTTGCCCAAAACCAAAAANCCCAGGNAAGGAAATNTTTT
GAATG

Sequence 4010

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGACAGAA
TTAAAGACCTGGAGAAACAGTTCGTAAAGCCTGATGGTGAGAATAGAGCTCGCTTCCTTC
CAGGGAAAGATCTGACCGAAAAAGAAATGATCCAAAAATTAGACAAGCTGGAACTACAAC
TGGCCAAAGAAGGGANGAAGAAGCTTGCTNGAGAAANGGATTTTTNATNTTATGAGCCAG
GGTNTTTCAGGGCTCACNAGACCAGGCTTTTGCNAGCAAAAAACTNAGGGGGNTTGNTAA
GNCANGGACACCACCTTGCTTTTTTTAAGCCCCAAANNAAAGATTGAANTGGGGCTNATN
CAAAAAGGAAAGGGGATCNAAAAAAAATGGCNTACCTTGGAAGAAAAAA

Sequence 4011

CGGCCGCCCGGGCAGGTACCACTCAGAAGCCTTCACTGTCAACTTCGGGGACACCGAAGA
GGCCAAGAAACAGATCAACGATTACGTGGAGAAGGGTACATTGGACATCCTGGACTGATT
CTGTAATTTTCGTATCTTTTTTCTCCCATGTTCCCTTTATTTGTCTTTTGGTTCTGCTTT
TTGGGAGATTTTCTTAACTTGATCTACCTGAGGCTCAGTCCTCATCTGTAAAATGCTGAT
AAAAGGACCTACCACCTAGCGTTGCTGTGAGGTGTCAGTGAAATAAAATGTAAAATGCTT

Table 1

597/863

AGCACAGTGAACTTTAATAAATGGTAGTTGTGGTTGCACATAAAANAAA

Sequence 4012

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGAAAATTAGCAAGAGACATTTTCTGCATTGT
GAGAAATCAACATAGACACCTTAAAGACCCCTTTGAGAGTGTGGCTTTTTGAACTTTTCA
GATTTTGCTCAGTGACCTGCTAACACTTACGTGAGAGGCTCCAGGTGTAAATAGAATCTA
ATGGCAGAATCTGTAAGTGTAAACAAGCATCTTAGGAGTGAGAGATCAAGACCACAAAAT
GTCCAGAGCTATGACCACAGCTATACCTACCCATAAAATACGATACTGGAGTAGGGTATT
TTTGTCTTTTTTTCTTACCTAAGAGCTAGCTAATCAGGACAGGTGATGCAGGTTCTGGAG
CTCTACCAGGGCAGTTCTATTTTCTTTTTTTGAGACAGAGTCTCACTGTCGCCCTGGGCT
GGAGCGCGGTGGCACGATCTTGGTGCACTGCAAGCTCCGCCTCCCGGGTTCATGTCATTC
TCCCTCAGCTACTTGGGAGGCTGAGGCANGAGAATCGCTTTGGAGGTTGCAGTGAGCTGA
GATTGTGCCATTGCACTCCAGCCTGGGCGACAAGGAGCGAAAACTCCATTTTACGGGNAA
ANAANATNNNNNANATNTANNGGNTCCNTCGGCCCGNTTTTAA

Sequence 4013

CCGGGCAGGTACTCAAAGACGAATCATGAAAAAGAAAAAAAACTTTATTTCAAACAGGTT
CAGTGATATATGTGTGTGCTACAGCAAAGGCTGGTTGTGGCAAAGTTTCATTTCAAACTG
TATGATGTGGGCTGGGCAAGGTGGCTCACGCCTGTAATCCCAGCACTTTGTGAGGCCGAG
GTGGCTGATCACCCTGAGGTCAGGAGAGACCGCCTAGCCAACATGCTGAAACCCCGTCTC
TACTAATAATACAAAAAATTAGCCAAGTGTGGTGGGCGCGCACCTGTAATCTCAGCTACT
CGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGGGGCAGAGGTTGCAGATCACGCCA
CTGCACTCCAGCCTGGGTGACAGAGCCAGACTCAAAAAACNAAACAAAATAAAACAAACA
AAAAAACNGAACTGCATGATGTATAATTTTTGACATTATGTGGGAATGTTTAACTTCTGC
CCAAATGTAGATTCAATCCAACATTATGCCCAATTTTATATTAATTTTAGTTCCTTAAGT
TTTCATTACCCAAAAAAAAAAAAAAAAAAGGA

Sequence 4014

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGGCCCTCCAAGTA
GTGTTTGCGAATACACGTCCTGTTGTGAAAGAGGTGAGGAGAAAGGAGTAGGAAGGCTCA
GAGGACATAACAGGCAAAAAGAAACAAGAGAGGTAAATAAAAAGAATTAATCTAATGGCT
TCACCCGGCTTAGGCGCAGTTTTAAGGGGCCTGACCCAGGCTTCGGGACCCATGTTTCTA
GTTGGGCTCTGTTGGCCTTTTTGTTGTGGGAGTGATGAATCCAAGCAGGAATTCCATCCA
CCTTCAGAACCGTTGGCGTCGTGAGGATGATGGTGTTGAGGTNCCTTCCAAGCAGGAGTG
AGTCCTTCTTTCTGGAACTTTTTATAACAAACACTTNGTTTCCNGNCTTGAAACNATATG
NGCNNGGCCCCTNTCTGGTCAGGGAACTGGGATTGGG

Sequence 4015

GAAAAGAGGTTTTCTAGCTAGAAATTCGGGGCCCAGAAGGTCAAGGCTCCAGAGATCCCC
TTCTCATCNTCCTTCAGTTGTCTGAGGAGACNGAGGATCACATGTNNCACAGGTGAGTGC
TGNTTNCCCANAATCTGCAGNCTTAAGCTNCCCTGCTGACGCACACAGCCAGTTCTCTGC
TTNATATTCATGTGACCC

Sequence 4016

ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTT
TTTTTTTTTTTTTTTGATTTTTTTATTTTTATTTCGTAGAAACGGAGGTCCAGCCAAGTT
CCCCAGGCTGGTCTCGAACTCTTGGCCTCAAGTGATCCTCCATGCCTGGGCTGGAAAACA
TAACCTTATGGGAAAGTTCCTAAAAATGGTTGAAGAACAAGACTGAAGGCTAGAATATGA
AAGCTTAAATTCTGATTCTGCCCCTTCCTAGTTGCATATTCCTGA

Sequence 4017

CCGCCGCCCGGGCACGGTACAGTTCACATTAATATTCACATCCCACTTTCTGCTACTTCT
GTCAGCTATACTCTGGAGAAAAATACAAAGAATGGACTTACACGCTGGGCCAAGGAAATA
GAAAATGGTGTTTATTTGATTAGTGGACAAGTTAAAGATGAAGATTGTGACCTATTNGAA
AGGACAGAAAAAATCTTCTAGAGGGAAATACTCAAGCAACTAGTCATTCTTTTGATGTCA
GAGTGCTAACCGCAAGTTGCTCCTGAATTCAGACCACAGATCCACAGCCACAGTCCAGAT
ATGTAGCGGTTCTGTAAACCTTAAGGGTTGCTGTGAAATGCAGAGCTTATATCCACAGCA
GTAAACCCAAAGTTAAAGATGCTGTGCAGGCAGTAAAGAGGGATATATTGAACACAGTTG
CTGATCGTTGTGAAATGCTATTTGAGGA

Sequence 4018

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGTAATTTGATCTTTATCAAGGG
CATATCCTGGGAATCAGGGAGAACTTCTGTAGCCTNATNGACANGACCTANCCCNCAAGG

Table 1

598/863

CACCCNGGGAAGAAGGGGAAGGCTTGTTNTGGGGTNTTTTGGGAAAGCAATGCCNATTTT
CTCTCTTGAATNAGGGCACCATGCCTGGGGGCACAC
Sequence 4019
CCGCGGTGGCGGCCGCCCGGGCAGGTACCGAGGTCATTTTGCTTCCTATAGACTGCCACC
TTTTGGCAAAAGCTGTTCTAACTCCATCTCAGCATTTACAATTCCATACCTGGTGGTCAG
AGGAGGCCCGCCTGCAGGCTCAGCTAAATCGGGCTGATGGCATTCCAATTACTCAGGCTC
AGCTTCACAAGGCTCCGATAATTACTCTGATACTACTGCTCATTTAGGCTTTGATGCTCT
CACCACGGAACAAGTAACAAAGGTGTGTATGAGAGCTTGGGATAAATTACGCACCCCAGG
CCAAGCTTCTGTTTCTTTTACTATTGTTAAACAGGGTCACAATGAATTATATCTTGATTT
TTTAGCTAAATTACAAGATGCTGTTGAAAAATCTGTCTCTGGATGAGCACACTCAAGGTA
TTCTTCTTCATATGTTA
Sequence 4020
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGTTGTGTGACTGTCTTATTTCTGGGAT
TCCAGATGCCCATGATAAGAGTGAGTTGCTCCTTGCCTGTTCAACTCACCCACTCCACAG
GAGTCACTGAAGGCCATGAACAAGTCCCAGTGTGCAGTAGCCCTGTGCAGGGTTCCCAGC
TTCCTCCCCTTTCAGCCCAGCATCTGTTTCTTCCTTCTGCCCACTCTCAATGCCTCCCTT
CTGAAGATCTGCTAGGAGTGTACCT
Sequence 4021
GTATACTCCGACTCTATAAACTTACTCTTCTTTAAAGCAGATCATCCTATTTATCATAAG
ATTATTAAAAATGTATACCTTTGCTTTTATTTGCCATAAAAAAAGCTTTCTTTGGAATAA
AATAGATTTTTATCCAAAGATGCAGAACTGTTTTCAAGATAAATCCAATCTGATCAATTT
GACAGATTAAGACTCTCTTCAATAGTAATTCCTCAAATTATTTAAATAATTTATGAAACA
GTAAAGGCTNAAAATTATCGAATTACATAGCCTTAAAAGNTCTAGATCCTTCATGGATTT
TATTTCNTGGTTTATTATTGCA
Sequence 4022
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGTTATTAAAAATAAA
AACTCGCATTTTAGGATTAGGGAAGTCTGGAAAAAAATTTTTTTAAACTTGGAGATCACA
TATTGAATAGCTGTCAAAATTCAAACTGACTAGTTTTGAAGAACTTCAAAAACGTGTTCA
AATGAATAAAGAACAAAAATGATCAAAAGAAACCCATAGCTGCCTAAGAGTCTTAAAAAT
TATTAATGTGACACTCTCATCTCTCATCAAGTGTATCCAAACCACTTCTCATTTGCTCTT
TCCATTTAAAGACTCACAGTAGCTTCACTACACATATATTTATACTGAACATGTACCTGC
CCG
Sequence 4023
TGCGGCCGAGGTACCCTGCTCTGCAAATCCTAGCCATTTCAGCCTNCTTTGAACCCCAAT
CTGNCTCCTAAATTCAGCAAGATCGCCAGGCAGAAAGTTCATCCTAGCGCTCATCCCTTT
CCAGTCTACTAAGGNAATGCTCTTTATNTATNACTCTATAAGTANATACGTATNTAGNTT
CACACAGACCAANAAATTTTANTATNTTCAGAAGTCGTACAACCANTGANATTTTNCANA
CTAACAATATTATAACGGGGGGCCCTANCNTGTTGATGATCAAGAGACAACATTGNTCTC
TCTTNAAAATATTNTGAGAAGGCCTTACCAAGGCNTTTATTTAANCCCCATATTCCANTT
ACNNANAAATCTTCCCTTTTCCC
Sequence 4024
CCGCGGTGGCGGCCGAGGTACGCGGGGGGGCATCACGGACCTACCAATATGTGATGTCAC
CCCTGGTGGCCCAGCTGTGTCATGGANAAACTCCAGCTGGGCCCANAGATTCTGCATCGG
GAAAATCCAANGCT
Sequence 4025
CCGCGGTGGCGGCCGCCCGGGCAGGTACAGAAAGCTACTATTTATGTAAAAAGCTAAAAT
ATAAAAAAGGTATACTCACACACATAGAGTTTGGTCACAGTGGCTATCCCTGGAGAGTGA
AAATGGTAGGAGGGAGACAAACATTTCACTACATATTTGTTTAAACCTTTTGAATGTTGT
GATATTTGCATATATTATCTGTTTAAATATACAGATACACACACACACACACACACACAC
ACACACACACACACACACAAAGATTAAGATTTAGTTTTCAGGTTGGCCTTACGAGGCANA
CAAGCTAATTCNNCAATATTCCCCCCGTTTACTGCATGGGCTTGGAAA
Sequence 4026
CCGCGGTGGCGGCCCGAGGTACAGTAGTATTTAACCTGGATGTGAGGACGAAGGAGGAAA
TTTTCTGGTGAATACAGAAGAGCAAAGAGCAGCAGGTCAGCAGGAATGACTAATGTTTTT
CTATGCACGTTTAATGGAAAATTCATGTAGATATTTTGAGTAGGTAATTGGATAACCAGC
ATTTATAACTCGCATCCTACTAGTTTGACTCTCACTAATAAGACTTGTCAAAGATCCAAG
AATCTGAAAGTTGATGATAAATGTCCATGTGTATCACCATCAATGATCAAAAGTTAGCAT

Table 1

CCACAACATAGAATGGGACAGATGAACTTAATGGATAAAGATGAATATCGGAGTTGTTCC
TTTTAGGGAATGATACTCTCCATGACCTGTGTGAGTCACAGCTGCAGAAAAGAGCGAGCA
ANGAGCATATGAAGGCAGCCCAANCAAATTCAGNCCTAGAGNGCCCTGCTTTGANTTCAT
GTCATAGNTCTGACTTTCTAAAAAATCATTTTTNTGCAAAAAANCCCTTTGATTTTTTTN
CCCCNCTTGCAGGCCCTGCAANCCAAACNAGAATCCCCTTTTAGCCANGGGGCTTTTTTG
GNGGGTCTTTCCTTTTAAAACCAAGGCTNTTTTTTTTAATTACCNCAAATTGGAAAAAAA
AAAAAAAAAAANNNCCCTTGCCNGGGGCNGGGCCGNTTTTAAAANCNTATNTGGGGNATN
CCCCNGGGGCTTTCNNGGGAAATTTTNANTAATTCNAAAGCTTTTTTCGGNATTCCCCCG
NCNNAAANCCNNCTTCTCAAAGGGGGGGGGGGGGGGGGGGGN

Sequence 4027

AATACGACTCACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTTA
TTGATGATGTAAAAAATGAAGCTCAGCTCTTGAAGAGCTAGAAAATTTAAGAAGTATCTT
TTTTTAAACCATATAAAAGATATAATGACTAAGTCCATTATGATACATCCTTAACATGGA
ATCTTGTAGTTATTTAAAATGTTATAGAAGGTCATTTAATGTTATGGAAATATGTTACAG
GAATATATTTCTCTAAACAAAGANGATTTACNGAAATATATAGAG

Sequence 4028

TCNCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGAAGAGCATCCGTTCGAGAAGCGCCG
CTCTGAGGGCGAGAAGATCCGAAAGAAATACCCGGACCGGGTGCCGGTGATAGTAGAAAA
GGCTCCCAAAGCTCGGATAGGAGACCTGGACAAAAAGAAATACCTGGTGCCTTCTGATCT
CACAGTTGGTCAGTTCTACTTCTTGATCCGGAAGCCGAATTCATCTCCGAGCTGAGGATG
CCTTGTTTTTCTTTGTCAACAATGTCATTCCACCCACCAGTGCCACAATGGGTCAAGCTG
TACGCGGGGGGGCAAAAAAATCAAGGTATTTGGTCCCGGAACAAAGCTTATTCATTACAG
ACAAATAAAACACCAAAAGCTTTAAGTTATTTGGATTTGGNGGAGGCAACAGAACTTGGT
TATGAGCAAAATGNACCGGGGACTGGGAACC

Sequence 4029

CCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTTTANCNAGAATCATGA
TTTTTAATTTGAATTAAANCATTTTTTTTNGCTTTGTTAANATGAGGCAGGCCTTNTTGC
TGACATTTTAAAAAGCAACTATTTTTCTTTAGTTACACTATGAGGCATTGGCTCCAACTG
TCAGCATTGAAACTGTCAGCAGTTCCCTACCAGGAAACTGGTTCCAAGGTCTAGGGTTTC
CTTAGGTAGAGGCTGGCNCTGTNAAAATAANGGGGCTCTTTATCCATGTCACCTGGAATG
GAGTTAATNCCCTGCCAGTCTTAGTTGATTTGACATACTAACAGGATGGGTCTTGAACGT
TTTC

Sequence 4030

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTATATGGACACCAACATGGAGCAGAAAATGA
GGGCAGCAGNGTCCAATCTNATTCCAGGTGAGAAGTTGCACAGTGTCCAATAGGTGCATA
CATCTCCTTAGTAAGTAGTTGCGATTAACANTGAAATATGAAATGAAAAATATATTTTTT
TATTTATGNGTATTATATTTTTNAAGCANCTAATAAGTNGGNAGGACATAATATTTAATT
NGTTGGGGA

Sequence 4031

GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGTTTTTGTTGG
TTTTTTTCTCCCTCAAAGTGAAATGAGAGACTATTGTAGGGTTTTGAGCCAAGGAGTGAT
ATTATCTGAATTCTGTTTTAAAAGGTTCATTATGGCTCCTGTGTGGAGGCAGGGTAGCTA
CTTAGAAACCAAGCCATCTCAGCCTCCCGATTTGTAGAGATGTGGTCTCACTATGTTGCC
CAGACTGGTCTTGAACTCCTGGCCTCATGTGATCCTCCCACCTTGGCCTCCCAAAATACT
AAAATGATAGATATGAGCCGCCACACCTGGCCATAAGCTTCAGCCTTGAGCAGATACTTT
CTAAACACTTTATATAGGGAAAAAAAACTAATTCTTGCGTA

Sequence 4032

CTACTTAGGGCGAATTGGAGCTCCCCCCGCGGTGGCGGCCGAGGNACTTTTTTTTTTTTT
TTTTTTTTTTGGCTTTTTTGTGTTTTTTGTTTTTCATTTTTTGNGTGTGTTTAT
TTTTTTATATTTTTTTTTATTTTTATTTTTTGCAGCCACAGGAGTTTTAGCCATTTCAGA
TGCCTTGCTCCCCACAATTTTGGAAGATTCCTTTGGATTTGACCAAAGTCAGGAAGAGAT
GGGANAAAAGTGAAACAACNACNATNAAACCCCNAACNTNAACCAACCGAAA

Sequence 4033

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCCGCCCGGGCAGGTACATGGA
TGAGAGCCGCGTTAGTGCCTGGGAGGAGGTCCAGCAGAGGCTTTTGAATGTCTGCAGTGA
AGCACTAAGTTACTTCCTCACTCTAACATCAGAAAGTCATCGAGAAGCCTGGACTAACTT
ACTGCTTTTGTTTCTAACTAAAGTTCTAAAGATAAGTGATAATAGGGTAAGTATGAGGCT

Table 1

TCGAATCCAGCCCCACATTTCTAGCCCAATTCGCATTGGGATGCGGGGTCCCAGAGCCGC
CGTGCAAGAGCTCTTAGAGATGAATCAAGCAGTGCCCAGGCTGCACTGCTGCTTGTGCAA
AGCCACCAGTGGCCTTTGCTGGATCTTCCTCAGTCCTTGCTTTTCTCCCC

Sequence 4034

AGGTACCTGTTTGTTTTACAACTCAGGCATGACATTCTTTCTGGAAAATTGAAATGCCCT
TATGAAACAGCTGTGGAATTAGCTGCTCTCTGTCTACAAGCGGAGCTTGGGGAGTGCGAG
CTTCCAGAACACACACCAGAGCTTGTGTCTGAGTTTCGGTTCATTCCAAATCAGACAGAA
GCAATGGAATTTGATATCTTCCAGAGATGGAAAGAGTGCAGGGGAAAGAGCCCTGCCCAG
GCGGAACTCTCCTATCTGAATAAAGCGAAGTGGCTGGAAATGTATGGGGTAGACATGCAC
GTTGTCAGGGGAAGNAGATGGCTGTGAATATTCTCTTGGACTGACCCCGACAGGCATTAT
TAAATCTTTGGAAGGGAGCTAACCAAAAATAGGGCTTATTTCTTTTTGGCCTAAAAA

Sequence 4035

CCGCGGTGGCGGCCGAGGTACCTACAGGTTAAGCTATCTTCTAAAGCTCTTTAGGGAGGA
CAGCTACTTTTTGCTTTCCCATTTTTGACTTCCAGAAACACTTTTAATTCCTTAAAAAGT
ATTCTAGTTCTGAAAATCCTAAAAAGCTTTGCTACATATTCTACTCACACAATTAAGCTC
CATCAAAGTATGCAAGTTGTGTTTTTACTTATGCTTGAAAGTTGATGCTGCGAAGTGAAA
ATACTTCATGTTGACAGTTAACACTCTGACCTGATTCAAGGCCAATTCTCAGTCCAGCTT
TTCAGGAAAAAGCACTATGTGGTGAGGAATAGGAGATAAAAAAGTGGCAAACAAAAACAA
AACAAAAAAAAAAAAAAAGGTACCTGCCCGGGGCGGCCCGCTCTAGAACTAGGTGGGATCC
C

Sequence 4036

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTT
TTTTTTTTTTTTTTCGCATTTTATTAAAACTTGAAAGCTATGGCTTGCCGCCATCAATGA
CGCCTATTGGGTTCCAATAGCCTCATGTTCAAATCTGACTCGTTAGCAAATCCACCCAAC
TCAACATCGGTCATCTTGACATTGCAGGATATTCAGCAAGTCTGAAGTTTTTAATCGGGA
AGGATTTTCTACCGTTACTGAACAAATAAAGGTTCTTTGTAGCAATGGCTGGAAATGCAA
CCCCGCGTACAGGACCAGCTCGGGGGGGTGTGGCACCCGAATGGAAATCCATGAGCAGCA
CCGTAGGCAAAACAGCCAGGAGGAAGGCCGATNTTNNAAANACCCACATTCCAGGGAAAA
GACCACCNAAGGGGG

Sequence 4037

CCGCGGTGGCGGCCGAGGTACTCTGGTTCCAGGGCTCAGAGTAGCAAGAGTGCTGGGACC
TGTCTGAGAAGCAGTGCTGGGCTGTGGATGCTTGCCTGTGGCACCAGATGCCTTACAGTG
GCCAGGAATGCTGCGGGACAGTCTACTTTGATTGCTTTCTTTCCTCCATGGCTGAGATCT
GAGTGTAGTGTTAACTGGGCTTAAAAATCAAGTCCGTTGTATCTGCATGGTCACGTAGTT
CGGCACCTCATGGCTTTTGCACCTAGAGGTGTGAACCATAATACCTGAAACACAATTTCA
TAACCTGGCTCCTTGGGCTTAGCCTATATGGTGGGAGGGTTAGGGTCTGTATATCATCAA
GGACTGTGTCTTTGCATGGGTTGTCATTTCTGTTTGGGAATTGAACCTTTCTTATTTCTG
TAGGCCCTAAGG

Sequence 4038

CCGCGGTGGCGGCCGAGGTACGCGGGGGGATTATGTGTCTTGCAGTTGACAACGGCAGTG
ACCAGTGCCTTTTTACTAGCAAAAGTGATCCTTTCGAAGCTTTTCTCTCAAGGGGCTTTT
GGCTATGTGCTGCCCATCATTTCATTCATCCTTGCCTGGATTGAGACGTGGTTCCTGGAT
TTCAAAGTGTTACCTCAAGAAGCAGAAGAAGAAAACAGACTCCTGATAGTTCAGGATGCT
TCAGAGAGGGCAGCACTTATACCTGGTGGTCTTTCTGATGGTCAGTTTTATTCCCCTCCT
GAATCCGAAGCAGGTAAAAAACTTGATTATTATTTGTGCTTGTATCTCTCATTCAAAGGC
TCTGCTCTTCCTTCCTTTCCCTACCCCCTCTGTTTT

Sequence 4039

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGATTTCAGCTC
ACTGCAACCTCCGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAAAGTAGCT
GGGATTACAGGCGCCCGCCACCAGACCCAGCTAATTTTTTTGTATTTTTAGTTGAGACCA
GGGTCTCATCATGTTCTCCAGGCTGGTCTTGAACTCCTGACCTCAGGTGATCCACCTGCC
TCAGCCTCCCAAAGTCCCAACGTGCTGGGATTACAGGTGTGAGCCACTGCGCCCAGCCCA
CCTATCTTATTTTTTAAAGTGAACAATTTTAATTTCTTTCATCACATTNTCCATCAATAC
TCTTCTTCTGGGTATAGGTTCATTTAGGATTACTCTGTAACCATGNGGGAGGTTAAAATT
TGGCT

Sequence 4040

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGANGTACTTTTTTTTTTT

Table 1

TTTTTTTTTTTTTTTTGGGAGACGGGCTCACTCTGTCAGCCACGCTGGAGTGCAGTGACA
TGATCTTGACTCATGGCAGGCTTGACCTCCTAGGCTCAAGGACCACCTCCCAAGTAGCTG
AGACCACAGGTTTGCCCCATCACACCTGGCCGATTTTTATTTTTTTGTAAANATGGGGGT
TGTCCAGGCTGGTCTCAAACTCCTGAGCTCAAGCAATGTGCCCGCCTTGGCTTCCCAAAG
TGCTGGGATTATAAGGCGTAAACCACTGCACGCAGCCTACCCTNTGCCTTTTTAAGATGA
ATGTATTTTATTTTAAATTTTTTGCCATCATTTGGGNGCCTTCACCTTTCCTGGTGGAAG
GGAAAATTC

Sequence 4041

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGATCTTGGCTCACT
GCAACCTCTCCCTCCCGGGTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTAGCTGGGA
TTACAGGCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTC
ACCATGTTGGCCAGGCTGATCTCAAACTCCTGACCTCATGTGGTCCACCCACCTTGGCCT
CCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCTCAGCCTACAAGCAATTTTTTAA
AAACTGTACACNCTATTACTGATAAAATTCTCTGTTTAAAATCCTATTTACTAATTTTAA
AGATTAAAGGTATTAAGTTTTTTTTTTAAATANCAATTAATTTNTTGTTTATTTGGATTA
AA

Sequence 4042

CCGCGGTGGCGGCCGCCCGGGCAGGTACTGACTGCTGATCTGGAGGCTGGGACAAAGACT
TCTGGTGCACAAGCAAAAAGAAGCCTTATATACCATTTACCTGTATCCAAATTTCCAGCA
GCCAACGATGGCGAAGAGCCTCATAGCAAGATGTGGCAGTGGCCGCCACTTCCCATGACA
AAGGGAGGTAGGCATGATTCATCTCTAGTGCATGGGGACGGTTGCCTTTTGCCCCAAATC
AACTCAAGACCCCTTTCCACCATATGTCTGTATGTAACTCTAAATGCATCTCTAAGGACC
TTAAGGAATAAAAAAGGCCACTGCTACCTGGGCAAGGTGGGATGAAGGGCAAAAGGAGAA
GGACATACCCCCCAAAGGAACCTATAAGCACCTCTGGCTT

Sequence 4043

CCGCGGTGGCGGCCGAGGTACATCTGACTATATTCCACTGGCTTTACACGGCTCGCTTTA
GGGATTGCCACGCTCAGCCGCACAGGCTTAGACCCCAGTCCCACTGCTCCCTGGCACTCC
GTCAGGGCTCGCTTCTGTTCCAGTTCATCTGTGAATTTCACAAAACCATAACCCTTAGAC
ACGCCTGTCTGGTCCAAAACCACCTTGCCTCCCCGACAGGAGGGGTAGACTTTGACGAAG
AATTCATACAGCATGCCATCATCCCACGTCCGGGGTCAGGGTCCCCCACAAAGAGGGGAA
TACTCAGGGGCTGTTATTCTGGGTTGGTTTCCCGGTAAGTGGGCATAGTTTTCAAAGTTT
AAAAAACCGTTTCGCCCTTGGCCCAAAAAACAATCTTCCCCCC

Sequence 4044

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGATTGG
TCTTTCCATCCTTCTTAAGATGTTACGGGGTGAAAGCCCGGGACGTGCTAGCAAGCTGCT
CCAGTGCGGGACACAGAGTCTCTATCACAGGCTGCTCCGGTGCGGGACGCGGAGCCTCTA
TCACAGGCTGCTCTGGTGTGGGACACGGAGTCTCTATTACACAGCCTTCTTTTGTTTGGG
GGGCTAGTTGTTGTTGCTGCTGCTGCTGTTTTTCACAATCCTTTAAGAATGTAAAGACTA
TTATTAGCTGACAAGTCATTTAAAAAAAAAAAAAAAANGTACCTCGGCCCGCTCTAGAAC
TAGGTGGGATCCCCCGGGCTGCA

Sequence 4045

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCATGGTACGCGGGGGCC
AGTGACCGGAGGCGGCGGCGGCGAGCGGTTCCTTGTGGGCTAGAAGAATCCTGCAAAAAT
GTCTCTCTATCCATCTCTCGAAGACTTGAAGGTAGACAAAGTAATTCAGGCTCAAACTGC
TTTTTTTTGCAAAACCCTTGCCCAATCCAAGCAATTTTTGTCAAGAAAGCTTCTTGCTTC
CTATCCCTCACGATGGAAATCTCTATCCCAGACTGTATCCAGAGCTCTCTCAATACATGG
GGCTGAGTTTAAATGAAGAAGAAATACGTGCAAAATGTGNGCCCGTTGGTTTCTGGTGCG
CCACTTNAGGGGNTTGGTTAGCAAGGCCTTCCAGTATAAAACTATTATTGGTGGCTCCTG
TAACTGGTAATTGATGTTTGGAATTCGTA

Sequence 4046

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT
TTTTTTTTTTTTTTTTTTCTAAAATGAGGATTTGGCCATTCAAAAAAAAACAACAACAAAN
CANAACCCCACCACATACAAGAAGAAAAAGAGAGGCATGCTTTACAAAACAGCTATTTNA
AAGTCATNATTTTTAAAAAAAAACTNTTNCAAANNTGTGNGAACCGAAGNGGGAAAAAAA
GTTCTCATGTGGNTTGGCGTCGGCACTGCANCTGNTCCTNATTAAAGGTCCTNTTTACTC
CCTCTGGGCTAGGTTTNCAGTAAAAAATTTTTTAAACANAACTTTGTTTTTCAACCNACT
TTTTTTNTNGCCCTGGGGCCT

Table 1

602/863

Sequence 4047
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAACTGTTCATAGAGTT
CAGTTTGACAATTAACATGTATATTAGTATGGTTGCCTGTGTTTGTGTTATGTTTCACTG
TGTTTCATCTTCCTGTGCCTGGGATCCCCCATGCCCTCCTTTCCTATCTCTCTCAAAACC
AGCTGTTTTTCCCCATCTGCTGCATTTTGGTTATAGATATTTATTTGTAGGTTTGCTTTA
AAACAAAACTCCTCTAAATCCTACTTGATAACCATCCATGCTCTTTACTCTCTCCTGTCC
TGGGAGCTCTCTTCCTAACTCCTGCCCTTCATTCTCGACGCCTGCCTGGCCTCCTTTTGG
TTCCTTCTCTACAGCATTGCTTCCACCCACCAAGCTGTAGTGCCCCTGGTCCCTTTA
Sequence 4048
CCGCGGTGGCGGCCGCCCGGGCAGGTACTCAGCAAAAAGCTGAGTTATTAGAAAATGGAC
ACTAGCCTGTGCTTGTGGGCATAAATTCTCCATCTATGAGAAGGCATGAATTGAGGCACT
ATATTGATTACATTATGTTGTTTATTCTCATATAACTCTCTATTGNTANAAAATGATTTT
CTAGCCCCATCTTTCAAGATGGGGAAATGGAATCCTAGAGAGACTTCATTTTTCTCCTAT
ATTTGTATTTAGCAATTGCTATTGCTGCCATAAGAAAATAACACAGGGTGGCTTGAACAA
CAGAAATTTATTTTCTCACAGTTTCTTGGAGGCTTGGGAAGTCCAAGAATCAAGGGTGCC
AAGCAAGGCNTGGTTTTCTCCTGAGGCCTCTATCCTTGGCTTTGG
Sequence 4049
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATCTATGGA
AAAAGCAATGGAAAATGAAGTGTCAATCAAATAATGCACCCTTGGCTGACACAAATTAAT
TGAAGCTAAACCTAGAACCCTTCTTTCTCACCAAGATGGCAACTTCTCCCAATTGTTCTA
AATATAAAATCCCGGTTATCTGTCACTTTACCCACTCCCCCTCTCCCCAGTCCGATCTGT
TGCCAAATCCTGTAGTTTCTACCTCCATAACGGAACTCGCAATCATCTCCTTCCATTTTC
TCTCCATTCCAAATCTAGAAGGAAAAAAGGAAACCAGNATTACATTTTTAGTTTCATCAG
CCAAGGTTAGGAACCTTTTCTGTCAAAAAATTTTCAAGTTGCTCATGGCCCTGTTAACCC
CC
Sequence 4050
CCGCGGTGGCGGCCGCCCGGGCAGGTACNCGGGGAGAGAAGGCCCGGAGGGGCTCTGCGT
NCNGTAGTGGCGCTGCTTGGGCCCGTGGCGGATTGTAAGCTGCTGGTTTTGCTGGCTGGG
AANANCGGCGAGAGGGTTCGGCATTTTTCGTCTGGATCCCCGCAAAGGGATNAGTGCTGN
CATGAGAGTCTCACCCGCATGGGGTGAAGCGTTCAGCCTCCCCANACGACGATCTGGGAT
CTAGCAATTGGGAGGCAGNANACTTGGGTAATGAANAGAGAAAACAAANGTTNTTGAGAC
TTATGGNTTGCAGTGAAAGAAAGAAACATTACTGGTTCGNCTTGTTTATAGGTAGATCAN
NAAATCAACATNTNACTTTCCNAAACTCGGTCCAGAAAAGTTAAAAATNTTTNATTTTAA
AA
Sequence 4051
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCATTTTGTCCCTTG
ACTTTAGTGTAGTGGTGGGGTCTTTNCCACCACCCCACTAANCCTTGGNAACCTCATTTT
GNGGCCTTATTAT
Sequence 4052
AGGTACCCTTCCACTCCTACTCCACTTTGAGATATCCCACCTTTTTAGGTTAAACCAATA
TGTAGCCTCATGTATTGATTNATGACTTTGCCTGTAACCTCTGCCACGCTGCCTTTAAAA
ACCCTTACCTGTGTAAGCCATCTGGGAGTTCAGGTCTTAAGCATGACCTCCCTGATCCTC
CTTGCTTGGTGCCCTGCAACAAATGCCCCACTTTCTCTCCCTGCAATCCCGATGTCAGTG
TGTGGCTTTGCTGCTCTGGGTGGGCAGACCCAAGTTCAGCAAGTAACCATTCTAAGGAGG
GTGTTTACACCTTCTTCATGATCCCTTGTCACTGTTTCATCCTAAATCCTGATTCCAACC
CAATTATCTGTTC
Sequence 4053
CCGCGGTGGCGGCCGAGGTACAGAATAATGCCTGTCACATAGTAAGTATGTAATAAGCAT
TTATTATTACTTATCAGGGTATGATTTATGAATTGTGGAACCTGGGATTATGGGAGAGTC
TGGCTTCAATCAAGGGCTGAAATTCCATTTCCACTGACATCTCTTCCTTCCCCATCCCCC
GATTCTGTCCTGCAACAGGGTAACAAGAAGGGGCCCTTAGGCCGTTGGGACTTTGATACC
CAGGAAGAATACAGCGAGTATATGAACAACAAAGAAGCTTTGCCCAAGGCTGCATTCCAG
TATGGTATCAAAATGTCTGAAGGGCCGGAAAACCAGGCGCTTCAAGGAAACCAATGACAA
AGCAGAGCTTGATCGCCAGTGGAAGAAGATTAAGTNGCAATCATTGAGAAAGAGG
Sequence 4054
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAATAACAATA
CCTGACTACATGGTTACCACCCGTGACTACTGCATTGCAGCTTAAAACATGCTTTGGTCA

Table 1

603/863

NTAAATTTAAAAGATNTACATCAAATAACAAGGCCAGAAAANCTGGTTTAAAANTNTCCT
GACCTTAANTNAACTTTAAATACATTGACAAGGCANAAAAAAATATGATCAAATATACAG
AANGGTTTCTATTTTTTCAACCATTTGGCATTTTATATTATTAATTTCGCTGGGTTAAAA
TAATATTNTATACTTCCTGTGCACTGATNATCATGGCTCTCCGAATTAAAACT
Sequence 4055
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACANGCCTGTGT
ATTCATATACCCGACCTGGGCTGATGATTGGGAATTCACCAACTACTCCAGGTCCTTGAA
CTTCTTCCACGTCACCCTTAGCATTTGTTATTCTCCAATAGCGACTGGCCAACTTGACAG
GCCTTCTCAGGAAGTGCATCTTTTGACATTTCAATCCTGATTCGGTATGTGAAGAAATAG
TGGGGTGGGATGTACCCCTCCAAGCCGGACAACCCGGGCGAGGACGCACCAGCGGAGGAC
ATGGCCAGATACTACTCAGCGCTGCGACACTACATCAACCTCATCACCAGGCAGAGATAT
GGAAAACGATCTAGCCCAGAGACACTGATTT
Sequence 4056
TGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCACCTTCCTTCTGTCNATACGAT
GAAACAAATACTNCATCCTGCTCTGGAAACCACTGCAATGACATTATTCCCAG
Sequence 4057
CCGCGGTGGCGGCCGAGGTACGGAAACAAAAGAGATAATAAACTAATAGTTATTTAATAT
GCTGTAACAACAAATTAGAAACATTGAGAATTAAAGTGTGTTTTCTTTGTAACAAACTTA
TCAAGAGTAGTTTGAACAAGGGTTGGCCTTCTTCTGGTATAATTTAGATACATATCAGAG
CAAACATCTTTTCTGTGGCTTTGCAAGTTGTCATACTGTATTTTGTTTGGATCAGCTTCC
AACATTTTATCTTTTATGCTTTCAGTATTGTAAAATACCTCTCAGTTTCTTTAGCATGCA
GTTTTTTTTTTTTGTTAGCGTCTCTTCCTCTAGGGACCGTTGTCATTCTTTTCATCACTC
CCACTTTCTTCATTGCTAAGTTGGC
Sequence 4058
CCGCGGTGGCGGCCGAGGTACTACGGAGAGGTCCTGTGACCTTTCCAGTGCCTCANANAG
TGAGAATGGGAAAGAGGANTGGATGAAGTATGGCTTACCCTCCTGTGGGTCACCTCTCT
Sequence 4059
CCGCGGTGGCGGCCGAGGTACTGATCGTGTAAGCCCTGGGACGCTATTGCTGGGGCTTTG
GCTTTTACTCTGACTAAAATGGGAACCACCGAGGGCTTCTGAGCAGAGAGGCGACATGAT
CCGTCTCCTGATTTAAAAGCACGACCTGGCTGCCGAGTTGAGAAAAGACTATTGGGAAGA
TTTGGGTAGAAGCATGGGAGCCAAGCTGTGGCAACATCCCGGTGGGAGATGATAGTGATC
CTGACGGGGTTCATGGTGGTGGTGAGAGATGGTTAGAGCCTGGATACATGTTTGAAGTCA
GTCAGTAGGGATTTTCCTTGACAGACTNGGATGTGAAGCCTGTTAAGAGAAGGGCAGNTG
GTTCAAAGGTTTGGAGTTTTGAATTCTTGAATTTGGAAATTATTTAAAGTAAATTTTTTA
AAAAAAAA
Sequence 4060
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTTAGCAATGAGGCTGT
GTTGATGAGGAAGTGCGCAGCATCATACTTGGTATAGAAGCTGGCCAGGAGATAGAGCAC
AATAGGAGAGATGCTGAGGAACTTGCGGGAAGAGGTAAACTGGAGCCCATAGTCCATTTG
CTCCCAGTGGTGTCAGTAGCCGAGCCTTTCCTTGGTCAGGAGTCTCAAAGGGTGTCCCTT
TCACCGTATGAAGGAAGACATACGTAGCCAGGTTATGGATGACGTTGGTCAGGGTCCAGA
CAACAGGAATGCTGAAGAAGGGGATGCTGAGTAGAACCATATGGCAGCAATCCTACCCAA
GGATTGATGTTAGGGCCAGCCAGATGCCCTCGGCTATTTCATCACTTCGGGGTGTTTGGG
GGGTT
Sequence 4061
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGAATTTCTGTC
AGTTAAGGGGTTCACTGCTTTGGTGGAAATTGGTGGAAATTGCTAGCAGGTTCCACGATG
TTTATTTTTTTCTCCATGTTGTATATCATTACCATTTCACATACGCGTTTCTATTTTTCT
TCCTCTCCCTCTGATCTCCTTAAAAAATGAATCTAGAGTTGGTGGCTTTTTCCCCCTCCT
CTTTGGCCAGTTCCACAGTTCAGTTCTTCCTGAAAACAGGGATGATGAACTTGTAGGATC
AGGACAAAATGTGTGTTTTTCAAAAACTTAAGGCTGGGTGTGAAACACCTTCTGTGGACA
AGGATTTGTAAACTTCTCTCCTCCCTCCAGCTGCGGCNCCCAGNCCTAACTGGA
Sequence 4062
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGATCTTGGCTCACT
GCAACCTCTCCCTCCCGGGTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTAGCTGGGA
TTACAGGCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGCTTC
ACCATGTTNGGCCCAGGGCTGATCTTAAAACTCCTGACCTCATGTGGTCCACCCACCTTG

Table 1

GCCTCCCAAAGTGCTGGGATTACAGGCGTGGAGCCACCACGCTCAGCCTACAAGCAATTT
TTTAAAAACTGACACCTATTACTGATAAAAATTCTCTGTTTAAAATCCTATTTACTATTT
TAAAGGATAAGTATTAGTTTTTTTAAATACCAATAATTTCTTGTTATTTGGATAAAAATT
TAAAGGGCATTTTTCATTTGGCCTTTTT
Sequence 4063
CCGCGGTGGCGGCCGCCCGGGCAGGTACCCAGAGTGCAGAGCCGCATTTCCAGCATGCAG
GGGCTGCTCAGCGTTTAGTCACATCAAGAAATAGAACAGAATTCAGCCATGGCCCCAAGA
AAGAGAGGTGGACGAGGTATTTCATTCATCTTTTGCTGTTTCCCGAAATNAATGATCACC
CAGAAATCACGTATCGGCTGCGAAATGATAGCAACTTTGCGCTTCAGACCATGGAACCAG
CATTGCCCATGCCCCCTGTGGAGGAGCTGGATGTCATGTTCAGTGAACTGGTGGTGAGTC
CCAGTTTTCTATCCTGGGCATTGGTTGGGGGAGCCAGNAGAAGGAGTAAGAGGAGAGGGA
TGTTGAATGAGTTTGGTTTTGGTTTTGGACATTGGGACTTTTTCCTTTTTNAGTGGAAAT
GGCNCCCCA
Sequence 4064
ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTT
TTTTTTTTTTTTTGACTTTTTTTCAGCCTTCCTATACAGCCCCAGGAATAAAAAAATCAT
GACTAAAATGGGATAGCTCCCTAAAAAGGGACTAGGAAAGAAGTCCCAATTTGANGGCTG
AAAAAAATCAAAAAAGAAAAGGAATAGGGCATCCTTTTTAGGAGCGGTCACTGTANAGCC
TCCAAAACCCATTCCATTAACTTGGGGGAAAAAAAACAACTGTATGGTAAATCAGCAGCG
CTTCCAAAACAAAAACTGGAGGCTTTACATTTATTAGCAAAGAAACAATTAGAAAAAGGA
CATTGAGCCTTCATTTTCGCCTTGGAATTCTGTTTGTAATTCAAAA
Sequence 4065
CCGCGGTGGCGGCCGCCCGGCCAGGTACATAGNAATATGAACACATCACACACATGAGAG
ACGCAAGTGCCAAATGCCTTGGCCTGGNCTTNACGTGTCAAGCCCAACACAGTC
Sequence 4066
TTAGGGCGAATTGNAGCTCCCCGCGGTGGCGGCCGAGGTACTGATACTTTTTATTCTTTT
CAGGGACCGTTTATCTAAAAAATGTTAAGGCTTATGCTTTCAGATCTCAGTCCAATTTCT
AGAAATTAACAATGAGTCCTTTTATAGCACTTACCTTTCTCTTCCTGCCTTCCCCACCTC
CACCCCAAACTTGCTTTGGGTGTTCTTTAATCTTTCAAGGGAGTGATAAATGTCACAAAC
TCTTAAATAAAGGGCTGAAATGGCAGCGTATGACTGTTTTGACTGTCTTTAAAGTAGTAT
TAGTCTTCTAGAATACTAATCTAATTCTTAGAAAACAGGAAAACAGGAGGAAGCCTCAAT
GGTTCNAAGGGGAAGGTTAATAATAATTTGGATTCATTCCTGGCCTACCCAGG
Sequence 4067
CCCGCGGTGGCGGCCGCCCGNTCAGGTACATCCCNTNCATCAGTATCNTTTCTTNATGAG
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CACAGACCACATGGCCCTCTTTTGCCTACTATTGAAGATTCTTCAGAGGAAGAAGAATTG
AGAGAGGAAGAAGAATTATTAAAGGAGCAAGAAAAGCAGAGGGAAATAGAACAGCAACAA
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AGGGAAAGGCCAAAGACNCCCACCTAGTAATCTCTCTCCCATTGGAAGGATGGCATCTCC
CGACAGAAAGAGTTTACCGTCAGGGCTGGCAGAAAATGGGAGGGAGCCTC
Sequence 4068
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CCCTNGTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCGCGTG
CCACTGCGTCCGGCTAATTTTTGTATTTTTAGTANAGATGGGGTTTCACCATGTTGGCCA
GGCTGATCTCAAACTCCTGACCTCATGTGGTCCACCCACCTTGGCCTCCCAAAGTGCTGG
GATTACAGGCGTGAGCCACCGCGCTCAGCCTACAAGCAATTTTTTAAAAACTGACACCTA
TTACTGATAAAATTCTCTGTTTAAAATCCTATTTACTATNTTGTAAAGATAAGTAATTAA
GGTTTTTTTTTTAAATACCAATAATTTCTGTTTATTGGATAAAAAATTTAAGGGCATTTN

Sequence 4069
ATTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTTTTTCATTCTTCTCCATTACTTAAATTAAATGCTGCCACCATTGAGT
ATGGCATTGTATAATCATATTCCTTCAGCGGTTAAAATAGAAAAAAAATGCAGATAGAGA
TGTGTNTAATTGGCATGCATAGAAATACANAACCAGTTACATGACAAAAGTAAACAAAAC
TNTAAACCTTCNTNTTTTAAAAACAAGATTTTCCATTTAACAAGAATTACATTCATTAAA
CTGGAGAGTNTNTCNTATAGANAAAACTTTTAGAGGTCAGATCCAAACATTTACCTAT
Sequence 4070

Table 1

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCTTCCTCATACTGACTATAGTCATCCACC
TCCATTCGAGACTCCAAGAGAGAAAGAGGATCACTGCAGCACACCCCATTTTCATGAAGC
CCCTCTGTATAAGACCCCCTATTTTCCTCATCTCGTTTTAGCTGGATTTTTAATTTTGTA
GAACTACTGCCTGATCCTGAGTTAAATCCATTATTAAGCTTTGCTACATAGAGATTGTTA
TCGTTGTCATGGTCTTTGCTTAACTTGATGCTTATTTTGGAAGAGTTCATTCCATCATTC
TCTTGGTCATTTGTTTTGCTGCTGCTATCATGACCGCCCTACCGAAAGGAGGTCAATTTG
GGGGAATCCCCAGGAGTTTATTTTTCTTAGGG

Sequence 4071

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGATATTTTTATTT
TACAAATTTTTAATTAAAATAAGTTTATTTAAAAGTTTTATTTTTAATTTATAAAATAGT
TAATTTTAAATAGTCTCAGCAAAAAAANAAGGNGGGCANAAACCCTGCTCGTTCTACTTTA
TAAATAGTAGCTTATCAACCGGCAGCCAGTGAAACACTAAACCCAAAATTTGCCTCATTG
NGTCATGGAGATTATGCTGCAAGGGANAAACCTGCCAAGCCCTTTCCAAGAGGTGCTGTG
TGCCAGCCCAATCCCCAAACCCTGCCAAGCCACCGGGAGTGCTTTCTAGGGCTTGGTGAC
AGGCCCCAGTTGCCCAGCTAGAATGCCCCCGTATGGCTCGGGGGGATG

Sequence 4072

GGGCTNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNATCTTGGCTCACTGCAACCTC
TCCCTTCCGGGTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGC
GCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTT
GGCCAGGCTGATCTCAAACTCCTGACCTCATGTGGTCCACCCACCTTGGCCTCCCAAAGT
GCTGGGATTACAGGCGTGAGCCACCGCGCTCAGCCTACAAGCAATTTTTTAAAAACTGAC
ACCTATTACTGATAAAATTCTCTGTTTAAAATCCTATTTACTAATTTTAAAGATAAAGTA
TTAGTTTTTTTTTTAAAATACCAANTAATTTCTGTTATTGGATAAAAATTTAAGGGCATT
TTCA

Sequence 4073

TATNGGGCGAATTGTAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTT
TTTTTTTTTTTGGCTTTTATCCTGTTTGTTGTTCTCTGAGCTTCCTGAATCTGTGGTTTC
GTGTCACATATTAATTTANAAAAATCTCATTCATTATTGCTTTGAATATTTCTTCTATTC
CTTTCTCTCTTTCCTCTCCTTCTGGGGNTCCACTATGCATACTTACATCTTTTATAGTTG
TCCCACTGTTCTTGGATATTCTGTTCCTTTTTTATTCANTCTTTTTCCCTTTGCTTTCAT
TTTTGGAAGTTTCTCTTGAAATATACTGAAGCTCCAGATTCTTTCCTCACCCACATCCAG
TCTGCTAATGAGGCTTCAACACCATGCTTCATTTTTGGTTAGTTTTCTTGGACC

Sequence 4074

AGGTACTTCATTCCTTTTTGTGCTGAGTAATATGTCACGTTATAAGGATACACCACGTTT
TGTTTATGCATTCATCAGTTGATGAACATTTGGGTTGTTTTCACTTNTTTGGCNTATTGT
GAACTAAATGCTTGCGTGTAAAGTAATTCCTTTGNCATGGAGNTTNTTTNGTNATAAGAA
TNGTNGTGGGTTTTTCAATTTTCCCCTTCCNTGAAGGTTGNTATTACCCCTTAAGGGAAG
NGGAAGGNAAAACCTGGCCTTGGNGGGTTCCGGTCAATTGNGGTTAAAAACCTTNCTTTA
ATTAATTTTNCAAAACCAATTNTTTTTTNGGAAGGGGGAAAACCCCCAACCCCNANCTAT
CCTTTTTTTTTTTTCAAAAAAAGGNNNGGGGCCNCCAACCCAACNNCCAATTTTTTNTTAA
CCCAAAAATTNCCCNTGGNCCTTTAAGNCCAAANCCGNTTTNATTTGGAANTTAAAANTT
NCCCTTTAATTNTTNTTCTTTNCTTGGCCAATTTTTNCCNTTTACCCCNANAACCACCCT
TTTGGNCNCCAATTGGNTNCCTTNGGTGCCTTTTTTTTTTTTNAATTTTTTTTTAAGGNC
CCCAATTTCCTNTTTTTGG

Sequence 4075

CCGCGGTGGCGGCCGAGGTACATTTTGCTTCTTAGAAAGCTAAGTCCTGGGTTCCGTCTG
ATTTTAGGTTCCAGGAACTTCCTGAGAACACCCGATCGCAGAGGGTAATTTTCTGGAGTT
TGTTTTGCAGGGATAGCTGGGAGTATGGCCACCCTGCTCCACGATGCCGGTAATGAATCC
AGCAGAAGGTAATGTTTCATGGTCCCAGGGAGGGGCAGTAGGGGATGTNCAANGGGGCAC
AAAAAATGGTTGTGGGAGAGTGGGAGAGGACTGAAGGTGGGCAGAGCGGCTCCTAGTCTC
CAGTCAGAGCAGACAGGAGAATTGAATTTTTTACTACGTTATCAAAGGCCTCAAGAAAGG
GACGTGNAACATAAAGAAGTTTTTGGTATTCCTG

Sequence 4076

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTGTT
TTTTGTTTTTGTTTTTCATTTTTTGTGTGTGTTTATTTTTTTATATTTTTTTTTTATTTTT
ATTTTTGGCAGCCACAGNANTTTTAGCCATTTCAAATNCCTTGCTNCCCANAATTTNNAA
NATTTCCTTTGGATTTGACCAANTCANGAATAGATGNGATAAAAGTGAAACAACAACANT

Table 1

606/863

AAAGGGGGNNAANNGGGAACAAACAGAAAGAGTTAAGCAAAACAAACGGGGTGCNCANTT
CATATGATTACTGACTGTTCTAATGCTAAGGANAAATTAAAANCANCTNGTGNCNTAATC
TTATATTTTAATCCATTNAAGGAAAAATTTTTAA
Sequence 4077
CNGGGCAGGTACTTACTAAATATATGCTCTATTTTTTCTTTTGGAAAAAGCATGGTTTTT
TGCTTTTGTTCTGTGGGGTTTTTTTTTTTTTTGGTGACCGACCAACCATTGAACCTAAAT
TATATGTGTAACAATTTCTTAAAGTGTAACGTTAGGTTTGAAACACCTAACAACTTTGCC
AAGTTAAATTTTCATACCAATTTTAGAATTGAATATGGGGAAATTTTAAGCTACCACTTA
TTTTTGGGAAAATGCCTTTTTGTTTTCTATTCCTGGTGGGCAGATTTTCTTCTGAAGTTG
AATTTAAAACTGAAAGATTAGGACATCGGGCCAACCNTTAAAGAGGTAAGGTGGATGATT
TTTTGNTATGGTAAGTTTGAGC
Sequence 4078
CCGGGGCAGGTACTTCCCTCACCTGGACATAATTCTCAATATCTGAAAAATTCAATAATG
TTATCATAGCAAATTCAGAAACAACTTCAGTATCTACTAATAAGGGAATGGTTAAATCAA
ACCACAAATAAGGAGGGAGACTACTGTTGTTACAGAAATAGTCTTCAAGAAACAATAGCA
TTTCCTAGAAGTTATAAAATTTTTACTGGTTCCAGACTGATCCTAATATCAGGTATGATT
ATTTCCTTTGGAGTAAGAAAAAAAATTTTTTAAGGCTGAAATTTTTGCACAAAAAGTCTT
AGATTAAATATGGTATATTGATTTTGGGGACACAAGGGAAAAGCCTATAATTTAAAAATC
TTGGCTTCTTAT
Sequence 4079
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AAGAAGAGTTGCTATAATCAGTATTAATCTGTAAAATCACATTGATTTATCTTAGAAGGA
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GCTTCTTTACTATACTGAATTAGTTACATCAATTGTTGTATCAATGAAATAATTAGGTAT
TATTACCTGTAACTATTTTGAAAATTAATAAAAGAACCAAGAAGAATAGAGTAATATCCC
TAGGCTAAAACTAAAACAAAATCTCAGCAACCCAGAACTTTCGGGAAACTGATGTTCAGG
A
Sequence 4080
AGGTACCAGCTCTGGGCATCCCCAGGGTTTATGCTCACCGGTCAGTGCTGGTGTGACATG
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TTTATTCCTCAAATTGCTTTGTGCTGTAAATGCTACCCAGAAAGGCTCATGTTCATTACT
CAAGTCACTTCACCAGAAAGTGACAGAGCCAGAATTCAAACCCAGGTCTGCCAGATTCCA
GGTCCCTTGCTTCTTCTGTTGTTGCTCATTGCAAGGGAGTCTTCTTCAAGGTTATTCTCA
GGAGTTTGATTAAGATACAGGCTCACAGCTGGGCATGGTGTCTCATGCTGTGGTCTCAGC
ACTTTGGGAGGCCAAGGTTGGGTGGATCACTTGAGC
Sequence 4081
CCGGNCGGGTACGCGGGGAGAAACAAGCAGCTGCTGCCTGGTGGTAACAGCAAAGGGTGG
AAGTCAATAGGGTCTCTGTGAGACTGTTTCACAGAAGGATGCGTGTTTACCCAAGGCTGC
GCATCAAAAAGAAATAGATAAAATAAATGGAAAATTAGAAGGGTCTCCTGTTAAAGATGG
TCTTCTGAAGGCTAACTGCGGAATGAAAGTTTCTATTCCAACTAAAGCCTTAGAATTGAT
GGACATGCAAACTTTCAAAGCAGAGCCTCCCGAGAAGCCATCTGCCTTCGAGCCTGCCAT
TGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGGAATTGAAGAATGAACAAACATTGAG
AGCAGATGAGATACTCCCATCAGAATCCAAACAAAAGGACTAT
Sequence 4082
GGTGGCGGCCGAGGTACTTTTTAATTTTTTTTTTTTTTTTTGNATTTTTAGTAGANACG
GGGTTTCACCGTGTTAGCCAGGGTGGTCTNAATCTCCTGACCTCGTGATCCGCCTGTCTC
ANCCTCCCAAAAAGTGCTGGGATTACAGGCATGGGCCCGCNACNCCTGGCCAAGTAGATG
CTTTTTATTGAGCTCTGTGAGGTAGGATCCCAGANCATCCAAAGTAANGANGGGGAAGGT
GAATGGGTAGGGTTTTTTGAAGAAAAAA
Sequence 4083
AGGTACCCAAACCTAAGAGCTATTATCCCTAAATTTCAAAATCTAAAAAAAAAACCTTAG
AACCTCAGATGATATAATTAACATAAAAGCCCAGGTTTTTGTATAAATGAAAAGGGATAA
AAATTCATACAAAATCCATTAGTAACATTCATAAGCACCCGAAATAAATTATTTAGATGT
TTGCAAGTCAGCTGCAAGGTGTTCTTCCTCCTCAAATATCCTCTAAGGATGAGCTTATAG
ACAGATTAACTTAACAACGAAACCTAACATTCCACCAGTAAGAATCTTGTTTGTGTGTGA
AGCTGCTTTTTTACTAAGTTGGAGGTAAGAGCTCAAAGTAGAGTTTTACTTAAGAAAAATT

Table 1

GGGGCAAACATTGATTTTAGTTTCTACAGCTATAAAATGATG

Sequence 4084

AGGTACAGATTAAGCATATAAAAAATTAGAGACTAACTGGGATTTTTAAAAGATTATTCC
AAATTAAGAGTTGCTTTGTTATGCCTTCAGCAAATAGCTTCATTTTGCCAATACTGAATA
AAAGAGTTATTTCTACATGTGAATTAGTTTTTTCAAGTCATAATCCCCTAAAAAAACTAT
TTCTAGCCAGAGCCTTTCACAATAAAAATACTAAGATTTTACAAAAATACTAAGTTTTAG
AAAGAGCAACCTAGTTTTTAACCTGGTGTGTATCCTGAAGTGACTTTTAATAACATTGAG
ATTCTTGCCCACTGCATAGTCTTCTCCTCAGCTGGGGATTTTTTGGATTTTTTTTTTTTC
TATTTACTTATCTAAATGTTTAGCAATATCAAGATGTAGGCT

Sequence 4085

CCCGCGGTGGCGGCCGAGGTACGCGGGGGGAGCGGCCAACATGGCGGAACGCATTANACA
CAAGAAGCGGATCCAGGAAGTTGGTGAACCATCTAAAGAAGAGAAGGCTGTGGCCAAGTA
TCTTCGATTCAACTGTCCAACAAAGTCCACCAATATGATGGGTCACCGGGTTGATTATTT
TATTGCTTCAAAAGCAGTGGACTGTCTTTTGGATTCAAAGTGGGCAAAGGCCAAGAAAGG
AGAGGAAGCTTTATTTACAACCAGGGAGTCTGTGGTTGACTACTGCAACAGGCTTTTAAA
GAAAGCAGTTTTTTTCACCGAGCCCTAAAAAGTAATGGAAAATGGAAAANTATGATAAAA
GACATTAANAGAAAAGAAAAAAGGATAAAGGGAAAAAGCTTGAAAAGTGGGAANAAA

Sequence 4086

NTAGGNCGTTTTGGANCTCCCCGCGGTGTTNGCCGAGGNACTCGCCCCCAGGCCCAGATA
ATTTATTTAAAAACTTTTTTTGTAGAGACNTNGGTCTCACTATGTTGCCCAGGCTGGTCT
CAAACTCCTGGCCTCAAACAATCCTCTACCTCAACCCCCCTAAGTGCTGGCATTACAGGC
ATCAGCTGCCATGCCTGGGCTACAAATCTTAATGTTTTCCCCATGGCTTCTTTTTCTGGC
GTTCTTTTCTCAGGTAATGGAAGTGGGCAGAGAATGATCCTTTCCCTAGGCTCCAGTGTG
TAAGAATTAAAGAAAGAGGAAAGAAACACAATGGCTTGATGGTCGAGGACAGGTTTATTT
TTAAAGAAAACAAACCCAAGGAGTGGCTTCTGGCTGAGTTAGATCAGGAGGCATGCCTCT
CTTACAGACTAAGGAGTTTTTTAAGGA

Sequence 4087

GGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCCTATGAACAAAATTT
GAAGCATGTTTATTTCTCTGCCTGGTTCCTCTAGAATTTGGAAATTATCTGNCTGGAAGC
TCTGAGTTTATCTTGGGACCTCAAGAGGAGAGGATCACCCTNCTTCACAGCNAATCAAAC
TCCAAATGGTGCTATNAACTGAACCACACATTGGACACGTCAGTCTTCCGAGGACCCTTA
GATCAACCCCAGGAGGAGCCCTAGCTTGCTGNNCCCCATTCNACGCCCCTTTCCA

Sequence 4088

CCGCGGTGGCGGCCGCCCGGGCAGGTACATGCAGAACTGCATGATCAGCTGTATGGTAGC
CTTGAAAACCAACAGGCCACAATCACAGTGAAAACCTCAGGTTGGCAGCCACTGGAGGAT
ACAAAATGAGTTTGGATCTCCTTCAATGCCCCATTCCCAGAGAACTGTCATTATTTGACC
TGCTGGTAGTTTCCCTAAAGGACNGTGCAAGGGATGTTTTTTTTATTTGACTGGGACCAC
TTTGAAAGCTTTGNCCCTGGTAATGGAAACAAGCNCCCCCAATCTTTTCCCCAATG

Sequence 4089

GGGCGATTTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTT
TTTTTTTTTTTNCAATGNCTCACTCTTGTCACCCAAGTTGGAGTGAACTGGTGCCATTAT
ATAAAGCTTACTGCAGCCTCANACTCCTACACTCAAGCAGTTCTCCCACCTCGGCCTCCC
AAACAGCTGGTATTACAGGCATAAGCCACTGGGCCCCCAACCCTTACTAGCCATTTTTTT
AAAATGCTGGAAAAAGCCNACATGTGGACTTAGGNGGCTACACCATTTGGGACAGCTCAG
ATACNAGAAACATTTCTATCATCTTCAAAGTTCTTANTTGGGACCAGAAATTGGCTTTTA
AAGGAATTATCCCTCAATTATAAAAAATGGATAAGGTATGGCCTAAAAGCCTCAAAAAAA
AATT

Sequence 4090

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CCAGCCTTGGCTAAGTTGATGACCTGAGTCGATCTCCACATTCATCTACATGAACGTGGG
GGCGTTGGTTTTGGCGGCCAAGGCTGTAAAATGTAGGGCTTGTCTCANNTTGCTATTTAA
TCAACATGTGGACATTNTNAGCANANAAANCCCCCANANCAAAATAGGAANTGAGAAANC
TACNCTGATTAAAATGATGAAAATGATT

Sequence 4091

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAATTACATTATTATTGAA
TATAGTCACCCTATTGTGNTATCAAATAGTAGGTCTTATTAACTCTCTATTTTTATACCC
ATTAGCCATCCCCACCTTCCCACAACACCCCCTGCCGCTACCTTTCCCAGCCTCTGATAA

Table 1

608/863

CCATCCTTATACTCTCTGTGTCCATGAGTTTGNTTTTGATTTTAGAATTCCACAAATTNA
GNTGGAGAAACATGGTGGAACAATTTTGGTCTTTTCNTGGTGCCCTGGGGTTTTATTTTC
CACCTTTAAACCAATAAATNGGATTCCCAATTAATTGNTTTCCNATTCAAAATNGTTANC
TTNGACCAAATGGAACTTGG

Sequence 4092
CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGAAAACCT
AGATACTGCAGTCAGATTTTGGAAACTGCCGTATAGTCACTGTTTTAAAAACCCCGGAGG
GGCTGTATTAATTTGTATTGCCCCATGGCTGACAAAAGCCTTTTTTTTTTGGTTTTGATT
TTTTTTTTTTTGTAACTGTTGGGGGGAAAAAAGGCTTTTTAACCCATTTTTGAAGAGGGT
GAAGTTTGGAGAACAAATTTAAAAACCATCAGTCATGTGAGCAGATTTTTTAGAAGGGAT
AGGAGACACACGCGCACACACACACACACGAAACTTGAAATGGCTTTGCTTTGGCTGTCG
TCTTCTGCCGTGTGCCAGATGAAGCTTGTGATNTGGGGAAGCCCGGGGGCACCCCCGTTT
TTGT

Sequence 4093
TNGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGTATNAN
ATTGGGTTTCACCATGTTGGCCAGGCTAGNNTCAAACTCCTGGCCTCAAGNGATCTGCCA
NCCTTGGCCTCCCAAAGTGCTGGAATTACAGGCATGAGCCANTTGCACCCGGCCTGCTTA
TTAATCAAGATTTTCAAAGTTAGATGTTTAATTAAAGGATAATATGTCTATACCACTCAT
CCAACAATTTTCACTGNGAAGACCACATTAGCCAGCTCCCAGAGGAGACACATTCTGGTG
AGCGGGGTGGCTTGGGTTCACCATATTCGCTTCTACCATCCTCCAATCCCAGCCTTTCCC
TNTACCTGGGGGATTCACTTGGAACCATTCCATTTTGTATTCCCACATT

Sequence 4094
CACCGCGGNGGCGGCCGCCCGGGCAGGTACGCGGGGAGGCATTGAGGCAGCCAGCTTCNG
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TTGAAAGATANAGATTAATACAACCTACTTAAAAAAAANTATANGNCCAANTAGGGTTAA
CCTAAAGNATATTTGCCTTTAAGCGGCTGCAAAGATTTTATNNAAACCGTTAAATTTTNT
TAAAANAGACNTTTAAAGAAATATTTTTAANAGCANCATAANANTTAATGNANAANGAAC
CNTTNNACTCAANANNTAAGTTTATNNCNATTNGNAANGNGGAAAAGGGGGAAAAAAANG
GAANTAAAANAAAAAGTGNGGTTTTCCNTAAAAAAAA

Sequence 4095
GCGGCGGCGGCCGAGGTACTAGTCAGTATGCTGTAGTATTAATCAGTAGGTNAAGTTCAG
TGAAGTAAAGGAGAATTGAATNCTTGAAGTTCACATTTAGGCAAAAATTTGGCGTTTTAG
GAGGTGAGTATAAGACATGATCTTTATAGAAAACGCTNGATGATAAAAACAGCCGCTCTC
TGTTAGGTGCCTTTATGCTTGGACTCCATTGGCATCTTTTCTTAAGNAAACCTAANNCTC
ACGACTGGGGTGCCAATGNGCTCCATGTTCTGTTAATCCCCAGNCACNNTTGNGNAGGGC
TGANGNCTATTAGGGAATCANGTTTGAAGCCTCGGGGGAGGTTCAAAGAATCAAGCCCTG
GGGGCAAACCATTAGNCTAGGACCCTCGTTCTCCTTACTTAANAGAAAACCAAATACACA
TACCACNAAANAACCAACANNANAANACCCCCCCCAAAAAAAAAACCCAAACAAAACCAA
CGCCTTGGGCA

Sequence 4096
AGGTACCCCAGCCAGGCGCACGATGTCGTGTAAGCAGGGTATTCTTGTGCCAGCATTTGC
TTCTCTGTGAAAACACAGCGCCGTCAACATTTTGCACTTTCCAGGGCCCTTCGGAATTGG
AAGTGCCTGTAGCTAAGCTGTTTCCCCTGGAGAGTCCAGCTGTTCTCCTGATCCGGCCCT
GCACACACACACCCAGCCACAAATTACTAGGATGTCAAACCCAGGTGATCAGGATACTCT
CACGGACTGCCCTGCTCCCCCAGGGCTCTCCCTACAGTGTAATCCTAAAGCCAAACTTCC
TTTCAGCAGTGGCTGAAGCAAACTCTGCAGTCAGAGGTCATACCCAGCAGGCTTCACCAT
GCAGACTTGAATGTTTG

Sequence 4097
TTTTAGGGCAATTGGAGCTTCCCGCGGTGGCGGCCGAGGTACNCGGGTAATCAGGCTTTT
TAAATGATGTAATTCCCACTNTAATAGCATAGGGATTTTGGAAGCAGCTGCTGGTGGCTT
GGGACATCAGTGGGGCCAANGGTTCTCTGTCCCTGGTTCAACTGTGATTTTGGCTTTCCC
C

Sequence 4098
NGGCCGCCCGGGCAGGTTCATGGGACTACAGTNCACGCCCCACCNTTCCCAGCTCATTTT
TGTATTTTTAGTAGNGACAGGGTTTCACCATGTTGGCCAGGATGATCTTGATCTCTTGAC
CTCATGATCCGCCCGTCTTGGCCTCCCAAAGTGCTGGGATCACAGGCGCGAGCCACCACA
CCTGGCCCTCTATTTATTCTCTTTAAAGAGAGAGAAAACTATTGAGAGGCCAAAATTATT

Table 1

TAATTAAATCTTTACCTTAGCACAAGGGAAAAAAATGGAATTTGCCTAATATAGGNTGAT
GAAGCATACACAATGAATTANAAACAATCACATTTTAGTAANAAGGCAAAAATTTGAGAC
CTTATAAAGCTATNATGGGNAGCTTATTTTTTGGGGTGGGGGAAGGAAAATNGA
Sequence 4099
CCGGGCAGGTACGCGGGGGCGCGCGGCCCATTTNCCTTTTCCGGTCGGCGTGGTCTTGCG
AGTGGAGTGTCCNCTGTGCCCGGGCCTGCACCATNAGCGTCCCGGCCTTCATCCGACATN
ATTGAANAATGATNATNGCCTGCTTGAGCTTCCNNTGCTTATCTGGAA
Sequence 4100
NTGGCGGCCGCCCGGGCAGGTNCGCGGGGAGGACGGTCGACTTCGGCTTTGCCCAGGTGA
GAAAGGCCCACCTGTGTCCTGGTTGAGGGTCTCCAGGGTTCTTTGGGGCCCGAGGAATTT
CAGACCTGAACAATCAGGTGGACAACTTCTTGTGACTTTGGGTATTCTGAAATTACTCAT
CTTGACTCTACTGTGCCTGGATGTAGCTGTGTGTTTTTGTGTGTATCCTGTTCATGGTTT
GTAGAATTTCTTGAGTTTGCCGATGGTGGCAGAGTCTACATAGAACTATGCTTCNTGGTG
TTCTGGGGAAAACCTTTCGACTTGTTGGCTATCTATCCAATATGGCTGTATAGCTCATTG
GGCTTTTGAAAANCCTTGGTGGTGNTTGTCAATGTGTTCTGGAACCATCAAATGGGAGCC
TACAATTTCAAAAAATTCAGA
Sequence 4101
GGNAAAACCCGGCGAANNNNTTTTTCGGGCAAAAAAACCCCGGGNGGGCCGCCANCAAGG
GGGTTTATTCNAAAGAAGCCCCTTTNTANCACNCNGCNCTGGGTTTTCCGACCNNGCGGA
GGGGAAAGGGACNATNNAAGAAAAANNGGGGAATATGGAATGGAGGTAACCCCTTNAAAA
AGGGAATGGGGGCNAAGGGAAAAAAACNAGNAANCCCNNGGANGGGGGGGGAAAAATNCA
AANNTNNGAAACCGGGGGGAATCNAACCAAGAATCNCNGAAAAAANTGGAAAGGNNCCAC
AAAAAAGGGNGGAAGGCCAANNGAACCCCAAAATGGGAAGGAANGGGGAAAAAAAACCAA
GGAACCGAAGGAAAAAAAATCCNNNGGAATAGGGCCNTGNNCACNAAAAGGAACAAGTGG
CNAAACCAAAAACCAAAAAAAATGGGGGAAANTAACCNTGGGGGGAAATGGNACCATGGG
GAAGGGGGCAANGCCCCCAAAGGCCNGGGGGGGGGAAGGGGGAAGGAAATAAACCCCNACC
GGGGGGGGCCAANNAANGGGGGGNNCAAAGGGGAAATTATCCTTGGGGGCCCCCCCTNGG
CNCNGGGCCCCNNAAAAAAAAACCNGGGGGGGCCGGNTNGACAANTAAAACCCCAAAAANA
NACAAANTTGAGCAAATAAANTGATGCCNATAAAACCCCCCTGCAAAAAAAACCAAAAAA
ANNCCCNGGGANANGNCAAAAAAAAAATCCCCNGGGAANNCCCTNNTTAACNGGGGGNGA
NCCCCCNTNNCCCAGGGGGG
Sequence 4102
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATACTATGGAATTCCTTTC
TTTTTTTTTTTTAGAGGGGGTGTCACTATGTTGCCTAGGCTAGTCTTGAACTCCTGGGCT
CAAGTAATCCTCCCACCTCAGCCTCCCAAGTGCTAGAATTACAGGTGTGAGCCACCACAC
CTGGCCTATGGCATTCTTTAGGGTAAGCATTTGCAGAAAATGNCATTTCTCTGAATGAAA
TCCTATATGGAAATCCTATCTNCCCATTCTCCACAAGGCCTCAGTCAAGCTTTACATAGC
AAGAATTTAGCCGTAATCTGGTCCCTACATTATTTCCCACAGGGAGCTCTGCTCTGGTCA
TGCTAAGCTTCATTATAAGGGGCTAATACAATGCCTTGCATTAATGTCCNGCAANTTAAT
TATGNTTTNGAATTCNAAANATT
Sequence 4103
AGGTACATGATAGGGAGGAGTGAGGCAGGTGGGCACTGGAGGGCTGTTTCCTNTGGCACA
GTTGAACTAGAGGGTCACTTTCCACTCATAATTGGTTTCCTAGGTCTAAGTCACCACACC
TGGGGCTTGAAGCAAGTCTATGCCTGTGCACCAAGCTGTTGTGCCNTTGGACCCTGGANT
AGATGTCAATGGTCTTCANTATCTACCAGTTGTTGGAAAGTGGGTNAGGNACCTCCCAAA
NCNTGTAAGGGAAGAATTCTTTTCTTNTCTCCCCACNCTTCCCANACTTCTTTTTTNCCC
CTTTAACAANAANTTGAACNCAAGGGCGGTGTCCAAATGNTTTCCNNAGTAAGGGACAAG
AAAGTGNCAANCTCNTTCCNTTGGAGTTGGCCAAAACNTTTCCTCAACCCCACTAAGTTT
TCCTTTT
Sequence 4104
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAAGGTACAATCTTGGCTCA
CTGCAACCTCCGCCTCCCGGGTTCAAGCGATTCTCCTGCCTCGGCCTCCCGAGTAGCTGG
GATTACAGGTGCCCGCCACCACAACCAGCTAATTTTTTGTGTTTTTAGTGGAGATGGGGT
TTCACTATGTTGGCCAGGCTGTTCTCAAACTCCTGACCTTAGACGATCCACCCACCTCGG
CCTCCCAAAGTGCTGGAGTTACAGGAGTGAGCCACCGTGCCCAGCCCCATATACTTTAAA
TTATCTTTAGATTACTTATAATATCTAATACAATGTAAATGGTATGTTAACAGTTTGTTA
TACTATATTGTTTAGGGAATCATGACAATAAAAAAGTCTGTATGTGCTCAGTTTCAAGAT

Table 1

GCTTAAAAAATATATATTTTCAA
Sequence 4105
TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGAGGTGTAAAGGGA
TTTATATGGGGACGTANGCCGATTTCCGGGTGTTGTAGGTTTCTCTTTTTCAGGCTTATA
CTCATGAATCTTGTCTGAANCTTTTGGAGGGCCAGACCTGNCAAGTCCTGNAGAAAAATN
ANTAAGATGGGCAAGGTTTGTGGGTTTTTT
Sequence 4106
CCGGGCAGGTACCCCTNCAAGCCGGNCAACCCGGGCNAGGACGCACCAGCGGAGGACATG
GCCAGATACCTACTCANTCGCTTGNTNACACTACATCANCCTNATTACCAGGCAGAAGAT
AATGGAAAANCNATNTATCCCATAGTACACTGNTTTCCAGAACCTNTTGATGAAGAGAAA
GCTACANTAAAATGTNTNCCAGAAACATCNGCTATGAAGACNCTGCAATGGTGGATGATG
GGGAAAATTG
Sequence 4107
NCTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCACTAT
GCCTGGCTAATATTTTTATTTTTTTATTTTTGTAGAGACAGGGTCTTGTTATGTTGCCCA
GGCTGTTCTCAAACTCCTATCCTCAAGCCATCCTCCCATCTCAGCCACTCAACTTGCTGG
AATTACCAGCGGAAGCCACTGTGCCCAGCCCAGACTCCCTTTTACCTAGTATATCATGTC
TAATTTCTAACAAAAAATTAAAAAAACATTGTAAGAGGAAAAAAAGAAACCCTAAAACAA
ACAAGCAAACAAAAAACCCAAAACAACAAAAAGTTTCAAGAAACAGAGCTAGCTGACAGA
ACTATATTCAGATATGGCAGGTATATTAGAATTATCAGATTGGTAATTTTAAACAACTAT
GACTAATATGGTAAGAGTGATAATGGAAAAANTAGAC
Sequence 4108
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTCTTCCGGGGACGTTG
TCTGCAGGCACTCAGAATGGTCCAGCGTTTGACATACCGACGTAGGCTTTCCTACAATAC
AGCCTCTAACAAAACTAGGCTGTCCCGAACCCCTGGTAATAGAATTGGTTTACCCTTTAT
ACCAAAGAAGGTTTGGGAAAGCACCAAAATCTGCATGTGGTGTGTGCCCAGGCAGACTTC
GAGGGGTTCGTGCTGTAAGACCTAAAGTTCTTATGAGATTGTCCAAAACAAAGAAACATG
TCAGCAGGGCCTATGGTGGTTCCATGTGTGGCTAAATGTTGTTTCGTGACCAGGGATTCA
AAGCCGTGCCTTTTCCTTAT
Sequence 4109
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCCCTGTGAAAA
GTTCAGGGGCCATATGGATTGGTGTCCCCACAATGCTGCCTGACATCATGGCCTCTGGCT
TGCAGAATCCTAAGTCAGTGATCTTGGCACGGTTCTGCTTATCCAGCAGCACATTTTTTA
AGTTTGATATCACGATGGACAAGTCCCTGGCTGTGCAGGAAGCGGATTCCCTCCACCACA
TCTAGTGCTATCTGCAAACGTGTCTCCAGGGTCAGCCCAGCCTTCAGCCCTGTGTAGAGA
TCCCGGTGTAGCCGCTCCATTAATGAGGAGCACAGNCAATTGCCTGGGAGCCCACCACCA
TAAGTTTGTTAGTTCAAAATGGACCTGGAACCATGGGGAGGATCCCACCCAATCGGC
Sequence 4110
CCGCGGTGGCGGCCGAGGTACAACCCCTTTACTTGCTACGACTACAGCTACAGGGAGAAG
GAACTAGAAGTGCAAAAAAGTCCACTCTTCCCTGTCCTTTATCCCAGGAGAGAGTCAGGA
ACAATGAGCTCCTACATAAAGATCAAAATGGTGTTTCTCATTTTCCTGCTTTCAAGTGTC
CTCTCCTATCAAAGACTCAAGCAACTTTTGCTGCAGCAACTGGACTATGGGCTGCACTAA
CCACCGTATCAAATCCAAGCAGAGCAGATCCTGTGACCTGGAGAAAGGAGCCGGGCTGTC
CTTCCCTGCTGTTAACCTTAGAAGNAAAAGCCCCGCGGTACCTGGCCCGGGGCGGCCGCC
CATCTTTGGGGGTCATTCGGATG
Sequence 4111
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTGGAGAACGGACACGCTGC
TTTTTTATATAGATTAAAAGAAATCTCAATCTTCAAAGTTTCTATTTACTGTAACAGTAG
ATGGTTTCAAAGAAGCACTTGGCCGGGCACGGTGGCTCACACCTGTAATCCCAGCACTCT
TGGGAGGCTGAGGCAGGCGGATCATGAAGTTAGGAGTTAGAGACCAGCCTGGCCAACATG
GTGAAACCCTCGCCTCTACTAAAAATACAAAAATTAGCCAAGTGTGGTGGTTGCATGCCT
GTAATCCCACCTACTCGGGAGGCTGAGGCAGGGAGNAATTTGCTTGAATNCCAGGTAGGN
CGGNAGGTTTTGGCAGTGGAGCCCGGAGAATCATGCCACTT
Sequence 4112
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATATTAGATA
TTAAAAATGGATTCAAGAGAAGTTACTAAGAAATGCTGACATACTGTATATACAAATTTT
TAGTTCAATATATGCCATTATATAAAGCACCAAGAGTAATGCCTTTATAAATCAAAGCCA

Table 1

TTTTTTATGACTCTGTTTCTAATCTTTGTAACCCTTTTACATTTGTTCCAATATACACAC
ATCATAAATGTTACTTGCTCAACACTTCACCGATTTGGTCTCAACTTAAAAATATATATG
GTAGGGCCAAAAAATTAATGTCAAAAAGGGAACCTGNTTCTAACCAGGTTACCAAAGGAG
GAAAAATTAGGTAAAATATTTTTGGGAATTAAAAACTGGTNCA
Sequence 4113
CGCGGTAGGCTGGCCGAGGTACCAGGCACCACACGAAAGGATCACTGAACGTCGAGAGGA
CATGAGAAAAGGGAAGATCAGCACCAACAGAAGCANTCCAGAGACCAAGTAGTNACCATT
ACCACTGACCNGTGATNACTCGGAAAAGGAAAAAG
Sequence 4114
AGGTACCTGAACAAATCCCATCAAGGACAGATTCTCAGTCTTGAAGAGGCAGCACAGTAA
AGGGGAAAGATCATGAGTNTTGGGGCCAGGTTCCCTTGGATATTGTGGGGNCCCCACACT
TCCTGTGATGATGTTGGATAACTCTTTTGANA
Sequence 4115
CGGTGGCGGCCGAGGTACTGTTTAAAAAGAATAATCATAATTTTATATTATNCNNTTGAA
ACATGTATTCAATACTGTTTACTGAATATCTCAAGTATACTTATTTACTTAGAAACAAAG
GAATCAACGGATATCTGTTATATAACGTTTAAATTACTAAAAATACTTTATNTANCATCN
NCTCCATAAATNGCTAGTTGTAAATGCTGACGAAAGTAAAATTGTCATTCCCTACATTTG
CTA
Sequence 4116
ACGCGGTGGCGGCCGCCCGGGCAGGTACCTCATCAATATGTGCATTTATTNTTTGCCAAT
TAAAATAATATAAAACTCTTTAAAAATTAAAAACCATATATTTCCCTANGTATTTCTGGG
ATGATTTTTTTTTCTCAATGACTTTTGANCAATGCTTTNGCTTTGTTTCTCAAA
Sequence 4117
GCCGAGGTACTATGGTTAAANTATAGTAAGTTAGGGACGAAATTTTATTNCAAGTGATAA
GNCAACTTTANGATGGCATGNCAAGAAAAGACTTCACTAAGATNGCGACTTTAGAATTAA
ACACTGNAATAAGCANGGAANGCANCCATGCNNATATTGGGCCNAGGGAGGACATTCAAG
CATGAGGCCCAATGAGAGCCAANACCGCANGACCTTATTGTGCTATANCAAGGGGAGAAT
ACAATTGGA
Sequence 4118
CCGGGCAGGTACGCGGGGACGTCTTCCGTTTTCTTTTNACATCAATGCAGAGTCCCTCTG
TGAATTTACAACACCCAACACCCATGAGTTTAGTNCTTAAGAAGGAAAATTGAGCAAGTA
TTTAATTGGTTGGACATTGCATAAAAGAGGTCCATATCCANGCTAACTCTAGAAATTTTA
TTCTCAAACTTANTTGGCCTCTTTTTTNTTCTGTCAGAGGACCATTCTTAGTGGCACTGGG
GAAATC
Sequence 4119
CTATAGGGCGAATTGTTAGNTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTTGTTGG
GGGCGTGACATTAACATNTAACCACTTAGAGTGGACATGCANTTAGAGAAAANTTANTGA
NCTGGAACCAAGCTGGGAATTCCAACATGTANAANTTAAACACATTGAGGAGGAGCCANC
AAAGGAAACACGAANCAGAGCTTCCAGCATGGTGGGGGGCATTTGG
Sequence 4120
CTATACGGCGAATTGGTTCTCCCCGCGGTGGCGGCCGCCCGGGCAGGACTTAAATTTTAA
AAATTTAGATTTCAGATTANTTGTCTTGCAAAAGGGGCAGACTAGGTGCCTCNTGACTAT
AATCCCAGCAATTTGGAAGGCTGAGGCGGGAGGATTGTTTGAGCCCAGGAGTTCGAGACC
AGCCTGGGCNACATANTGAGACTTNATCTNCCCCNAAATTANCCACCTGCCGGCTATGCT
AGTCTATAGTCTCAGCTNCTCATGAGGCTGAAGTGGGAGGACCACTTATGCCCAGGAAAC
CAAGGCTGCAGTGAGCCATGATCATACCACTGCACTGCACTTCANCCTGGGGGGACAGGA
ACAAGGACAGACCCTGTCGNCCCACACCTNCCCTATACCCCCGGGAAAAAAAAAAAGTGC
AAAAAAAAAAAAAAC
Sequence 4121
ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTTTTT
TTTTTTTCTGGACACAGGGTCTTGCTGTTGCCCAGGCTGGAGTGCAGGGGCATGACCATA
GCTNACTGCAGCCTTGACTTCCTTAACTCAAGCAATCCTTTTGCCTCAGCCTCCTGTAGC
ACTGTAGGCACACACAACNTATGCCTGGGCTAATTTTTAACATTTTTNTTTCACNTTNTT
GACCCTTATNTTNTATACCCGGNTAATTTTTTGTAGAGACAGGGTCTTGCTATGTTGGTC
CAAGCTGGTCTTGAATTCCTTCGCCTGCAAGCAATCCTTCCCCCTCAGCTTCCTGAGGGT
TAAGGATTACNCGCNTTGAGCCACTGNACCTGGCCTCCAACAGGTAAATTTTTAGAACAT
TTTTTCCCTTNTACACCTAAAATTTACCCTCCCTAATA

Table 1

Sequence 4122
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCATGGAGGGCACCAC
CAAGAACTTCCTCTTGAATTTCTCCCTGTAGCCGCCCACACCAGCCCTGGTCTTGGAGGC
TGCTGAACCACGATTATGCTGCCATCAGTGAAGGAAGCTGAAATTGTGAAAGTGAAACAC
CATGGCTGGTCATGTGCCAGATGATGTTGTGTTTCTGCAAAGTATCTCCAATCCTGGGTT
GGATCCAGTAGGTTGCACTTGGGCACCCAAACCGGAAACAGGGATTCTTGTTCCTTAAAC
ACAAGACACTCCAATGAGAAAGCTGCTCTCAGATGAAGTTGCAGATCANGCCAGG
Sequence 4123
AGGTACTCAGCTGAAAACACTGTTTCAGCCCCCTCTCTGGTGACCTCAGCCTTCTCCAGG
TGTATCTCTTGATGATCTTGGAGACCAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGAC
TGTCAGGCTGTGGTGGGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGNGTGTTCTC
TGCCCCTCTGCTCCTNCATCTTAGCTTCTGGAGGAGTTAAAGGCACCAAAGGGCACCCAA
GTCAAGGGTTTGGCAGGNTTTTGCTTGCCCTTGCCCCAAAGCCTTCAACAAAAACTTAGC
TTGGGTCCCCTTGCTT
Sequence 4124
CGAATTGTAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGATGCGTGAAAGG
TGCTGTGACCGCCCTCCGGGTTGTGGCTTGGTGGCCTTCGGTGTTTCGGGGTTTGGCAGT
TCACTCACCAAGGTGATCTGATGGAGTGCACTTCGCACGATTCCAAAGAAGGGAGAAGAC
AGAGGAGAATGCCACATGAAGACAGAAACAGAGATTGAAGTTATGTTGGCCATAATTCAA
GGATTGCTGGCAACACCAGAAGCCAAGAGAAAGATGAGGAAGAATTCTCCCCTAGACCTT
TCAGAAGGAGCGTGGCCCAACCAACACCCTGACTTCAGACTTCTGGCCTCCAGAACTGTG
A
Sequence 4125
TAGGGCGTNTTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTT
TTTTTTTTTTTTTTTGCATGTATTTATTTCTCCTTGCATATTTATTGNTTTTTCCTCTTC
TAGTTTTCCTTACTAATACCTACTNTAGTAAACCTGGCCTNCAATAATTCCTGCCGTCGT
GGGTCCAGGCTATGCAATTCTTCCATCATTTCTGGCTGGCANAGCGTNTCCCGAGACTAA
AGGTGCTCTTGGGGATCCCAAAGGACCTACATAATTTTTAAATCAGTTTATGCTTCACTT
TCACTTGAGAAAAGTAGGGTNTACAAGAGGGGNCCTCAATGCTTGCCATTTGGGGGGAAA
AGTNAATGGGGAAACCTTTTTTTNATTATTTTNATTTGGNCCCCCNNCCTTAGGAAAAAA
ANAAAAGGTTTNTTNTTAAAAAAGNCCCCCAAGAAGGTTTTTTGGNCNTGGGGTTTTCAA
TTTTTAAAAAAAAAAANCTTCCCTTTAAGCCAACCTTTNCCAAAAAAAAATT
Sequence 4126
AGGTACGCGGGATGTCTCTTGTCAGCTGTCTTTCAGAAGACCTGGTGGGGCAAGTCCGTG
GGCATCATGTTGACCGAGCTGGAGAAAGCCTTGAACTCTATCATCGACGTCTACCACAAG
TACGCGGGAGATCCCAGAGGCTGAACAGCTCGACCTTCTCTGCACAGCAGGTCCAGCATC
CTTTGAAGCATGAGTTCTTACCAGCAGAAGCAGACCTTTACCCCACCACCTCAGCTTCAA
CAGCAGCAGGTGAAACAACCCAGCCAGCCTCCACCTCAGGAAATATTTGTTCCCACAACC
AAGGAGCCATGCCACTCAAAGGTTCCACAACCTGGAAACACAAAGATTCCAGAGCCAGGG
CTGTACCTGCCCGGGCGGCCGNTCTAAGAACTAGTGGGATCCCCCC
Sequence 4127
TGGAGCTCCACCGNGGNGGCGGCCGCCCGGGCAGGTACAACCAAGTAGTTAGAGTAGTTC
ATTTATTATGGTNGGAAATAACAAGAGAGAAACAGATTTTGAGTGGGAAGGAAAATAANT
ATTCTTGTTTAGTCTTGTTAGTTTAAGATGCATATTAAACATCCAAATAAAGACATCAAA
NAAACANTTGGATGTNTAGGTCTGAAGATCTATGGTCAAGACTAACTGTANAGATTTTNA
TCCCGAATAAAATCATCTANACTATTGCAGATATTAAGGAAATAAAGGGGTTGAAGATCA
ATCCCTGGGAATCTCCACATATAAGAGGTGANGGGGAGGACTCTTAAATTCCCAAGAGAG
GCNNAAGAAACATTCCTTGACTGGCT
Sequence 4128
CCGGGCAGGTACTTGCAGGTGGTTTGGCCTGGAAAATCTANATGAGTGGTTTTTAAATNT
ACTTGCTTATTAGACTCANNAAGGAAATTTAAAAAACAATACTGATTACTGAGACCANCT
TTTCTAGATTNTTCATTCATTANGAGTNANGAAAGGCCAATGAATGTGTATTGATAAAAA
GGTTCCTGGCCAGGTGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGC
AGGTGGATCACCTGAGGTCANGAGTTCAAGACCAGCCTGGCCAACATGGGGA
Sequence 4129
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTNTTTTTTT
TTTTTTTTTTTTATTTATTTANAGACAGGTTCTTGTNCTGTNGCCTGGGCTAGAGAGCAN

Table 1

CGGTGCAATCCTAATTCACTGGGGCCTCAAATTCCTGGGCTCAAGTGATCCTCCTGCCCC
ACCCTTGANGTTGATAGGACTACAGGCACACACCACCATACCTGGATAATTAATTTTATT
CTTATTTCNAANAAACGGAGGTCCANCCAAGTTCCCCAGGCTGGNCTCGAACTCTTGGCC
TTAAGNGATCCTCCATGCCTGGGCTGGAAAACATAACCTTATGGGAAAGATTNCTAAAAA
AATGGTTTGAANCAACAAGTACTNAANGCTATNAATNATGAAAAGCT

Sequence 4130

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTT
TTTAGTANAGATGNGGTTTTGCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAG
TGATCTGCCAACCATCCATAATATNTAAATAANGCATATTGACTTCTTCTTAAACTNANG
GGGTAAATNTAATATTTTANTTTTAATAGTNCAGGTTCATGNATCTTCATATNTTATGCT
CAAGNTAATAATTCCTATTTGCTNTACATTTATGA

Sequence 4131

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGTGGCTCACGCCTATAATCCC
AGCAATTTGGGAGGCCAAGGTAGGCAGATCACTTGAGGTCAGGAGTTCCAGACCAGCCTG
GTCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGCCGTGCGTGGTGGCA
CATGCCTATAATNCCANCTACTTNNGAGGCTTGAGGCAGNGAGAATCACTTGAACCTGGG
AGGCAGAGGCTGCAGTGAACCGAGATCGCACCACTGCGCTCCAGCCTGAGTGACAGANAG
AACATNTNACACACACACACAAAAAAATCCATTTCTTTCCTTCTGTAAATATCACATATA
TGCAAATCCACCCACCCATATTTCTGTATATGTTCNATTACCCCCCTNAAATATTTAAAT
GGTAAAAAGAAACAC

Sequence 4132

CGGCCGAGGTACATCACANTTCTCAGCNTCAGNTCANTNACTGNGGNTTGNGCAANAGAA
CAATCANAATGCACATGCCTATGCTTTATCCTAGATGTGTTACTTTAGAATTTTGGAGGT
GGTAGCTGGATAAGNGCATCTGTGGAAAAGCTTCTCANTGTANTNTTNACNCACTCCTTT
NATNGAATAGGCATTGACTNTACCATAAACCCTAGAAAATACGTCATTGGCAATGCTACT
GNTTTAAAGGAGAGAAAGGCATCTTTTTGTTNNTTGACCCAATAATGGCATTGCCTATAA
CAGGTTGAAAGGGA

Sequence 4133

GAATTGGNNCTCCCCGCGGTGGCGGCCGAGGTACCAGGCACCACACGAAAGGATCACGAA
CGTCGAGAGGACATGAGAAAAGGGAAGATCAGCACCANCAGAAGCAATCCAGAGACCAAG
AGAACCATTACACTGACCGTGATTACCGGAAAGAAAGGGATTCTCATAGGCACANTAGAG
GGCCNNNTCATAGAGATTCCCATTGGAAGAGGCATGAACAGGAANATAAACCAAGNNCNA
GGGACCAAANAGAAANAAGTGACAGAGTATGGAAAAGGGAGAAAGATAGGGAGAAATATT
CCCAAAGAGAACAAGAANGAGATNTACNNCANAATGATCAGAACCGACCCAGTGA

Sequence 4134

CTTTTATAGGGCGAATTGGAGCTNCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGGCC
GCAGACAAGTTGNCAGCAACATNNGATNACTCAGGGAATATCATTCCCATAAATCTTAAG
GCAATCTACTTATCAGACGAATGAGTAACATACAATCAAAATGACTGGATGATGACTGGG
GGGACATCACCATAAAGACTATGATGTGCATTCAATATTTACACGAAGAACTAGGATNAA
TGAAAGATGAGAGAGAGAANGAGAGAGAGCAAACAGTATATAATGGCTCTGTGCTCCAAC
AATGTGGGAACAACCTTATAAAGAATGTGTAAGGGACAGGAAGAACATATGCAAAAATGT
CAGGTGGTAACAGTGTTGGGTGGGTGTTATTCTAAGAATGCTTTTGGCGTGTGAATAGTA
AATTG

Sequence 4135

NCTCCCCGCGGTGGCGGCCGAGGTACGTATGAGAAGCGGNTTTCATTCCCTTGTNTTCTA
CAGAGCAGTTTATTAGAGTGAATGCATTTTAAGGCCTTGCATTTGATATGTCATCCAGTT
CATAATCAAGTTGCCTTTTTCTGGCTAAAACATAATGATTATGTATTTTTCTCATTTGGG
TCCCTACAAGGCTGCTGGGCCCTTTGTCCCTCCACTTGTGGGAATCAGATCTAGAGCAGG
CTGAGCCTGCAGACACAGCAGTGGCCAAAAGGTCACTCTAAGNGTTTTGTCTTGACTCCT
TACTTGAAGTCCACCCAGCTAGCACACATCTTGGTTTATACTGAAGCCCCCTGCCTAGAA
ATACTCATTTCAGGGAACCACCAAGTAAGCATCTGTGACCACACAGGCTTTTT

Sequence 4136

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAACAATGACAT
CACCTAACAGGGCATTTCTCAGAATGCATCCCATCATTAAGCAATGCACGACGGTATTAT
ACGCTGTAAATAACTGTATGTGCTATACTTCTATGACTGGCAGCACAGGTGTGTTTACAT
TAGTATCACTACAAACATGAATCATATGTTGCGCTATGATGTCATAAGGTAGCAAGTTTT
TCAGCTCAATTATATTCTTATGGGACCACTGTCGTAGATGTAGTTCATCACTGACCAAAA

Table 1

TGTCGTTATGTGGTGAATGACTGCGGTAAAATTCAGGGCCCACCGATGTTTTAGTGCAAT
TAGACAATTACAAGAGATAAAGCTATATCTTTTATTCCTTTCCTCATTATGGATAAA
Sequence 4137
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGANACAGGTCTCACTGNGTT
GCCCAGTCTGGAGTGTAGTGGCTATTCACAGACACGATCATGATGCACTACAGCCTCAAA
CTCTCAAACTCCTGGGTTCCAGNGATCCCTCCACCTNAGCCTTCCCTAGTAGCTGGGACT
ACAGGAACAAGCCACTGCACCCAGCTAATCCCATTCAATTTTCCAATTAATCACTTACTG
CTTTGAAGNGTCATCTCTGATACTGCTATTCTACCTTTTACATTNCTATTTTCCCAACTN
TNTTAGTAAGCTTACCCTTAAGGATAAGTAAGGCCT
Sequence 4138
AGGTACTCAAAGTTCAAATGGAGCCCAGCAAGCCAGATCTCCTTTACTTCTAGGTTCCCT
CAACAGTTTCTCCTCTGCTTTAGAGACTGCCTTGAAAATATTCTTGTCC
Sequence 4139
TGGCCGAGGTACTTAATGTTTGTTCTACATAGTCACTTTGCTTCTTCGTAAATAAATACT
ATNNTNAAAATAAGAGACAATANAACTGACCGGCCCTATTGTGTCT
Sequence 4140
ACGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTNATCATTNACA
GCTACCTGTTAAAATATTCTTTTATGTAAGTTGTTTTGATTTTTAACAAATATNTTCTTT
TATTTCAGGAAAAACTGTTTTTCTCAAAANGTTTAACCCCANAANCCCANGGAAGCCAAN
ATGCANTTAACCCAAGATCTTGNTTCTCCTNTNGCTCNCTTGNACCACNNTTATAGGACC
CATAAAAATGCNTTATCAGGGCCNCCANAAAAATTATCCATTGGNCTNGNACCNCAGACC
CCAGCTTTCTCCTGTTNTTATGGCCCACGNGAAATTNTTATCCATTAACNATATTCCTCA
CTGNAANCAAATTTACCTTTAGNNCANCCNTGCNNAAAAAAAAAAA
Sequence 4141
AGGTACTGTGCGCTGAAGTGATTAATTTACATATTCATTCTTGCTCTGTGATATTTAGGT
GTTTGTTTTTGGTTAGTGCATTTATTCTGTTAAAATTTAAAATACATTTGTGTTTTTTAT
CCTGTTTTAAGTATATATACCGTGGGAATGTATATATAGGGATGTATACACAGACACACT
CAGACACATATTTTAATTTAGATTTCTAGAAGGGAAATTTTAATTAAAAATAGGTGAACA
TTTTTAAATGACCTAATACATATTTAGTCCACATTGAANACTTTTGGCATTTTGNCATTG
CCATTAAAAATTTTGATGGCNTTAAAATTTGATGCCATTTAAA
Sequence 4142
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTNTTTTTTTTTT
TTTTTTTTTGTTCAAGGAATTACAAAGCTACTTTTAATACTTTGGGGNGAGCCCCACANG
AATAAAAAACNCTGGNAAGGGGNAACCCCCTCACCCCCGGGAGTGGCCCAAGGGGGAAAA
GAGGCTACCTGAGGGGAAGGAAGCNCAAAAGGGACCCGCTGCANACTCANGGCAAAGGGA
ATGCCATCGGTGCTGGG
Sequence 4143
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTTTTAGTATACTATTTGTATACTATTGCCATCTGCTGATGTCGATAT
AGAACTACAAATATGTAATCCAAATGGGAAGATTTCACCTCACAGGGTTAAGAGCAGCAC
ACTCATAACTTGGAAAATAGTTGAGATTTTATTTTCAAAAGTAATTATTATAAAAAAATC
CTTAGTGGATGAAGTTTAAAAAAACCTNTACAATGTTTGCAAGAATTTGTGTGCTCCATC
CATCCTACATAACATAGAAGTTGGATTACTCATCTTGATTCAATGTACCATTGGTGGCCA
ATTGATTTGATGGTAAGGGAGGGGATCCGTTGACCTCGTCTGTTATGTAAAGGATGCGTA
GGGATGGGGAGGGCNATGAGGACTAGGGATGATGGCGG
Sequence 4144
GCTGGCCAGCGCTTGCCTTTTTGTGCTGGCTCAGGCCCCTTTCTTGCTCCAAAAGCATGA
GGGGCTCCCTGCCTTACTGACTTGCGGCGCTCCTCGAACTGGCTCTG
Sequence 4145
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCACTTTGTATAATATT
CAAAATCTATACAGCACATTGCTAAGCAGAGTATACACTCAAGAAATGTAGAATTGGTAA
TATTATACTAGAAAATGAACTTCCAGTATTGCTATTATTTTACTAATNATGCATAGGTCA
CTGACCTGTGAAGAGTGAACAGTATGTAGAAGTGCCTTTGAGATAGGAAATTGTGAGAGT
CCCTAACTTTTACATACATATTAGATTAATTTGAGCCTACATAAAAAGAAAACAAATTTG
TGAGGATTTGAGGGGGGAAAATCAGGGGACTTCCTGTTTGCAGCTCTTATCATTGGGAGA
ACAGTAAATTAGATCTAGACTAATATATTGGGGNCTCTCTAATANATGGCAATTTGTTAA
CTTTTGTCATTGNAGNTGGAATGCTGAACAAAAAT

Table 1

615/863

Sequence 4146
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTCTTAGCATTTTTTTTTAAGCTGTTTTGGGGAAAAAAAATCACATTCCATTTTTTTT
CCCCATGATATGGATAATAAAGGCTGGATGTCTCTGACCTAGGGTGACTGCAGTCTCAAT
TTACATCTTATGTCCGGACGTCCCATTCAATGTCGCATTCATTCCAGACAAAAGCGTCCC
AGTTTAGATGACAGATTATATGACTGCCCTTTTTTGTCCTCAAGGTATGATCCAAAGGGA
AGCATCTTTCTCTGCCATTGCTGTTTCCCACGCGGGCCAACTGCTCANATGTTCAAGTGG
AGTCACGGCTCGGTTATCCAATCTGGCTTCCAAANATGTCCTTTTTG
Sequence 4147
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGCCGAGGTACGCGGGGCTGCAGCGGGAG
CTCCAGGTTTATCCTCAGTGTTCTGTGTCCTGTGCTTATAGAGGCCCGTCCTCTGTGGCC
GTGTGACCTGCAAGTATTGGGAGAGCCACAGCTAAACCCCGGGACCCCTGGAAGCCTAGA
AATGTTATGAGTTCTCATTTTGTCCAAGACCTTTGGCCAGAGAACATACAAAATTCTTTC
CAAATAGGGATGCTGAGAAGATATGAAGAATGCAGACATGACAATTTACAGTTAAAAAAA
GGCTGTAAAAGCGTGGGTGAGCATAAGGTGCACAAAGGAGGTTATAATGGGACTTAACCA
ATGTTTGGCAACTACCCAGAAAGAAATATTTNAATGTGATAAAATATGGGAAAAAGTCTT
TCATTAAAGTTTTTTC
Sequence 4148
CGAATNTTTCTCCCNGCGGCGGNGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTT
GCTGAATTTAATCTGACTACCATTATGCAAGTAGGGGNGGAGATACATATACAGGAGTTT
NTGAGTGTTCTTTCCTAAAACTTGNGCACATTATGTTNGTATATGAAATAGAGGCAGTGT
TTAGAATGAACGTGGCTGGGCTATACTTCTTGATTTCAGNGTTACAACAAAGATTAGATT
AAAGGAACAACAAACAGCATGTTACAAGAAGCATTCCAATTTTCCAGTAAGAACTGAGTC
ATGCAAGAGAGACCATACAGGTTCCACAATTAATCTAATGCAAATT
Sequence 4149
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTG
AGAAAGGGTCTCTCGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCGTGATCTCAGCTCACT
GCAACCTCTGCCTCCAGGGTTCAAGAGATTCTCCCACCTTAGCCTCCTTNGCCTGGGACC
ACAGGCACCTGCCACCACAAGCCGGNTAATTTTTCTATTTTTTGTAGAGATGGAGTTTCA
CCATGTTGCCCAGGGTGGCCTCGAACTCCTGACCTNAAGGGATCCGCCCACCTCAGTTTN
TCAAAGTGCTGGGATTACAAGTGTAAGCCACTGCTCCACATTTAACTCCAATGACGCTGA
GCACAACCCANCACTNTAATTACAAAAATTTGTTTTGTTATAACTGAACATTCCCTTTCT
ATTTTAGACTTTTNTTGGCTGAACATNTTTNTTCCCCCCAGC
Sequence 4150
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAGGTCCTAAAGCCTT
CAATTCTTCGAAAGGAATTAGAAAGAAGGCCAGTTTGGCTTCAATGTGTAACCATGAGGG
AAAGAGGCAGGAGGAAGAGATCAGGCAGGCCCTGGTAGGCCATGTTAGATGAAGTGTAGT
TTTTATTTTAAGTGCAGTGGAAAGCCAGATAAGGGTTTTTTTGTTTTTGTTTTTGTT
Sequence 4151
GAATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTA
CATGGTTCTTCCTCAGAAAGTGGTTCTTCCTTAATGTGTTTCTTTTTACCCCTTTTCTTC
TTCTTCTTCACAGATGTTTCTTCTTCTTCTGCCACTTTTTCTTCTTCCTCTTCTTCAACT
GAATAGGGTAAGGTGTAAAAGGCACAACAAATTAACACTGTATCAGATCTCATTCCTTCC
AAAAACGTTTGAGTCCTAGTTTTTTTCTGCCATTCTCATCAACTACCCAATGTTTGTTTT
GTTTATTTTATAATTGGGAAGGTTCTCCAAGGCCTACCACTAACTTTAACGAATGATATA
GATAGAGCTCAGAGCAATCTTCTCACGATCATGAAGTCATGTATAAAAATCAGGATTAAA
ACAAAGGGCATCTGATCTCCAATCATTATTGGGGA
Sequence 4152
CCGCGGTGGCGGCCGAGGTACGCGGGGGGGACTACAGGTGCCCGCCACCATGCCTGGCTA
ATTTTTTATATTTTTTAGTAGAGACAGTGTTTCACCGTGTTAGTCAGGATGGTCTCGATC
TTCTGACATCGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTAGGATTACAGGCGTGAGT
CACTGCACTCAGTCAGGTTTTCAGGTGCTGGCTCCATGGCTCTTCCTGAGCCGAAAATAA
GGAAACTCCATAGACCTTGNCCACTGGAACTCGTTCCCATCTACCCTCCACTCTATCCAG
GGTGATGGATCTCTGCAGTAAGTGGAAGAGTTCTTCATGGCCCCCAAGG
Sequence 4153
CCGCGGTGGCGGCCGAGGTACTTTTCTTTTTTTTTTTTTTTTTTAAACTCTTTTTCTTTT
TAAAGATAAAAATGAATGCTTTCCTTCACTACCCAGAAAACGACTTCCAGCCCTATACCT

Table 1

GTGAGTATATACTGGGCCTNTGCAGGTCACTGAGCATGAGATTTACAGTGTATAATGTTT
TCTAAAAAGTTACTTATTGTTATTTTTTTTAATTGTAAAGAATGTTCATTGAAGTGAACTT
GGGAAACATAGGGAACTCAAACAAATAAAATCAGTCACTCTTTTTTTAATTTTATTATTA
TTATTATTTTTTACCACACAGAAGTAGCCACCATTAGCATTTTGGGTCTTTTTTTCTTTA
CTGAATTGAGAG

Sequence 4154

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TCTGNCGTTGTTGCTGTTTGTTGGGTTTGCTTGNGTGCTTTTGTCCTGTAACTACTCAAT
AAATAACACAAAAGATAAAAGGCTTTGANAACCTTAACTNTTTTTTCTATTGGCTTGGGG
NGTAAATCCACTGCAACAACTATTACTACTTGAAAAGATATGCTAGAGTAAATAGAACAA
TACAGTTAAATTCACCTGAAGTCTTTAAAATCTTTTTTTTTTCCGGGTATTTTNAANCCA
TGTGGCAAAAAGGCATTACCATACAATTTTAGCTGTNGGNAAACAAATNATNNTNTTTTA
CATTGCTTTCCCAACNAATTNTGCATAGCACTTT

Sequence 4155

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT
TTTTAAAGACAAGGTCTTGCTCTGTTGTCCAGGCCTGGACAACACAGCATGTGCAGTGGT
GTGAACATGGCTCACTGCAGCCTCGACTTCCCAGGCTGAAGTGATCCTCCCGTCTCANCT
TGAGAGTAGCCTGGAAACCACAGGTGTGTGCCACCATGCCCAGCTAGTTTTTAAACTTNT
TGTANAGATGGGGTCTTGTCATGTTGCCCAGGCTGGTCTTGAACTTCTGGGCTCAAGCGA
TCCTCCTGCCTTGGCCTNTCAAAGTGCTGGGATTACAAGGCNTGAGCCACNTGTGCTACA
CCAAATGTTGACAAGGCTTGTGTGCCAACCCTGGAATTGTCATTACATTTTGTGGTGAAA
AGG

Sequence 4156

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTG
CTGTNGNTGTTGTTGTTGTTGTTGNTGTTTTGCCTTTTTTTTGNTTTTTTTTGGGGTTTTTT
CTTTTGGCTTTTTTTTGTGTATTANTGTNTAANGTTTNTAATTTTTAGGGGGGGGNNAAAN
TTTTNTNNANAATCATTAATTNTAATTTTAATTTTNTTGCACCCCACCAGGANTTTATAA
NCCCAATTTTNAAANNCCCTTNGCCTCTTTGGANACTTGCNTGCTTGGTTNNCCTNTCTG
GGGGCTCCATTCATAGCCACAATTTGTTTGCACTTNGAGGATTTGTTGCAAGGCCCGTAG
CAAGGTCCAAANNNGGACTNAANNGGAGACAAACCCAAGATCAACTTTGCCACCCGGTNN
TGCCCAATGCACCCCNNATTTTTTTTCAAAAA

Sequence 4157

CCGCGGTGGCGGCCGAGGTACAGCAGCCGGATCTCAGCTCACTGCAACCTCCACCCCCTG
GGCTCAACCGATCCTGCCACTTCAGCCTCCAGAGGAGCTGGGACCACAGACACGCACTAC
CAGGTCAGGCTAAGTTTTTGGTTTTTTTGGTAGAGAGGGGGTTTCATCATGTTGCCAGGC
TGGTCTTGAACTCCTGAGCTCAAGCGATCCTCAGGCTCCCAACGTGCTGGGATTATAGGC
ATGAGCCACTGCACCCAGCCAAATTGCTTCATTTTTTATTACTCCATACTTCCTACATAA
GATACTTCCTACACCTGGCCAAATTGCTTCATTTTTTAAAAATATATTTTATTTAATGTA
NTCTCACTCTGTTGCCCTGGCT

Sequence 4158

CTATAGGGCGAATTGGATCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTCTTTTTTTTTT
TTTTTTTTCTCCCGACTCAGCTTCCCACCCTGGGCTTTCCGAGGTGCTTTCGCCGCTGNC
CCCACCACTGCANCCATNATCTCCT

Sequence 4159

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTCTTTTCAGTCCTACCCACTTTCTATTCC
CCTGGGACTCCAATGAAATAAATGTTAGATCTTTTGTTACTGTTCCAAATGCCCCTGAAG
CTCTGTTTGTTGGTTGGTTGGTTTTCTTCCCCCAGTTGATTTTCCTCTCTATTGTTCTTA
TTGGGTAATTTCTATTTTCAGGTCCACTGATTCTCTCCTCTCCCCACTCCCTTCTGCTGT
TGAATCCATCTACTAAGCTTTTTGTTTTGGCTACTGTATTTTTCAGTTGAAAATTTTCTA
CCTTTTTTTAAAATCATTCTATGGGCTTTGGCTGGANACCTTTCTATTTTTTGGCCTGGA
AACCATTTCTTAATTTTTCTACTTTGG

Sequence 4160

CCGGGCAGGTACTTTTTTTTGTTTTTTTTTTTTTTTTTTGCTAAAAATGCCCTGAGATAT
CCTTGGAGATACTGAATTGGACTTAGTTTGGGGCTTCAATATGCCTATTCTGAATACAGN
ACTATCTCCCTAGGGAAAAATTTCTCTTNCCNTTTAAACCAATNACCCCAAAGTAAGNAA
CCTTTNCATTTNTTNNTTNCCCAANAAGCCAAATCTCTTTTTNNTATAAGGGNATATTNT
TNNTNNTTTANGNNCCAACNAAGGGGGGNCTATCTCTTTTGGAANTTNCCCTTTTATTNA

Table 1

AAAAAGNGTTGTCCNNATCNAAANNGGNTAAATGGTCCAATCCTCTTTTAANANATGGGG
GTTNTTTTTNAGTATTTTTAAGAATAAAAACTNGNGCNATTGNNAATTATTTNCNTTGTG
NANTNCTTTCAANTTTTTAATGATGATTTGNCCCCNTTANGNNGGNTTNANTTNGNGTCC
CCTTTNCAANGGGGGGTGATTNCTTTGNCCAAATTTTCTTACTTTTTAACC

Sequence 4161

CTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGC
GGGGGAAAACAAGATGGAGGATTCGGCCTCGGCCTCGCTGTCTTCTGCAGCCGCTACTGG
AACCTCCACCTCGACTCCAGCGGCCCCGACAGCACGGAAGCAGCTGGATAAAGAACAGGT
TAGAAAAGGGCAGTGGACGCTCTCTTGACGCATTGCAAGTCCAGGAAAAACAATTATGGG
TTGCTTTTGAATGAGAATGAAAGTTTATTTTTAATGGTGGTATTATGGAAAATTCCAAGT
AAAGAACTGAGGGGTCAGGATTGACCCTTGCCTCATTAGTATTTCGGATCAGNATTCAGN
AAGATATTCTGTTTTATTTTACCGAAAGGGATGAAACCCCAAATTTCAACCTCCTGG

Sequence 4162

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAAGGTACATTTTCCTTTGTGGC
ATGGTGGCCTGAAAATACTGTGAGGTTTAACAATGAAGGCAGGTGACTGGTGAGGAGAGT
TCCAGCCACTGGATTCTCCCTCAGTCCCCTGTGCTGTGGCCCTTGGTTGACCCCTAGATT
TCAGTGCCCCTGCCTGACACTGGAGTCCCTCTATAAAGAAGCCCCTTTCTAGCTAGCTAG
CTGTTCCATCCCGCACACCCCCACAGAAGCCTTTTGCTGCCATTAGTAAGCACGCCTCTA
TTTTCTCACCTGTGATTGATCATGCATGGATATGGAGTTTTTTGTCTATTAAAAGCAATT
TGTTAAGTTACTT

Sequence 4163

CCGGGCAGGTACCATTCTTCTAGTGGGGGAGGAGCATGACATTTTTGTGGTATTCACCCC
CAGAACAGGTTGGTATGGCTGGGCCACCCTGTTCCAGGTTCTTTGGCTTTCCCTGGGATG
CTGTTTTTTGTTGGNGCTTTGCCTGCAT

Sequence 4164

CCGGGCAGGTACTAGATACCCAGTAAAGTGCTTAACTAATTCTATCCCTTTGTNATCTAC
CCAAGTGTTAGTTCAGTCCAAAAGAGTCAATACATTCTAAAAAGGTGTTAAATATG

Sequence 4165

CCGCGGTGGCGGCCGAGGTACAATCTTGGCTCACTGCAACCTCCGCCTCCCAGGTTCAAG
CGATTCTCCTGCCTCAGCCTCCCGAGTAGCTAGGATTACAGGTGCCCGCCACCACAACCA
GCTGATTTTTTGTATTTTTAGTAGAGATGGGGTTTCACTATGTTGGCCAGGCTGTTCTCA
AACTCCTGACCTTAGACGATCCACCCACCTCAGCCTCCCAAAGTGCTGGAGTTACAGGAG
TGAGCCACCGTGCCCAGCCCCATATACTTTAAATTATCTTTAGATTACTTATAATATCTA
ATACAATGTAAATGGTATGTTAACAGTTGTTATACTATATTGTTTAGGGAATCATGACAA
TAAAAAAGTCTGTATGTGCTCAGTTCAGATGCTTAAAAAATATATAT

Sequence 4166

AATTTTTGCTCCANCGCGNTGGCGGCCGAGGTACTAAAATTGTGTTGGGAGCAGGGATTT
GGAAATTTNTGAGAGATGTGTAGTTAATTTAGTAATTCTGTTTCATGAGATATGATCTGT
TATGCTAGTGGTTTAATAGGCTTGCTATGTAAGTAGAACGTGGCTCAACTAGATATCTTT
ATATGTATGGGCATTACTCTTAGTGATATTTGTTTCCTGTCCTTTGTTGCTCATGCTGTT
TAAGTGCAGGCCGAGACCCAGCCTCTTTGTAAGTACCAAAATGATGCAAGAATGATAAGT
AAATGTGTAAATAATTTGCAGAGGAGCGTTTTAGGGTAGGAATGGCGATTGCTAAAAGGT
AAATTTAATAAAAAGGTGCTTCCTTTCCTCAAATAGTTTCGCACCCCTCATCGGATCAT

Sequence 4167

CTCACTATAGGGGCGGANATTGGGANGCTCCACNCGCTGGGTGGGCGNGCCCGTAGCGTA
CTNTTTTTTTCTTTTCTTTTCTTTTTTTTGATACAGAGTCTTAGTCACCCAGACTAGAGG
TCAGTTGGCAGGATCTCAACTCACNTGCAACCCTCTGCCTCCTGGGCTTCAAGTAGGACC
ANGCNCCACCTNCGCCTCCCAAGNTATGCCTGGGGGACNTACCAGNGCTGATGCCGCNCA
CNCAATTGNCCNCGGTCTACCTTNCTTTTGTNAATTTTNTTTTGTTAGTAAGAACNGGGG
AATCCGGTCAACCCANTTNATTTTTACTTTAAGNGNCTTTGGGGCNCTTNTTTTAAAACT
TTTNCTTGGAAGCCNTTCAATAGGAAGNNANTGNCCACCTTCCCNCCCCTTCAAGGCCCC
TTNCTCNCCAAAAATGNNTNGNCNTTGGNGGNTNANTTTTATCNAANNGGNCGGNGGCNC
NANGGGNCCACCTTAGTTTTTTTTTCCAAAATTTTTTTTNNAAAGGTTAATTTTNGGCCAA
TCAATTCCANTTTAGNNTNGNAAAATTAAAACCCATT

Sequence 4168

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAATAGAGACAGGG
TTTCACCATGTTAGCCAGGATGGTCTGGATCTCCTCTGACCTCATGATCCACCCACCTCA

Table 1

GCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCTGGCCGGGTCAGGCTNTT
TNTAATNTGTTTAAAACCATATCACCCAGAAGGTATTCAGTATATACTTATTTAAATGAA
TTGAAAGTCATATGAGCAGCATGGACTTACTACTTTAAAAACCACATTATTAGAAACCTA
ACACCTTGGAAGCTCTGCATATTCTGAATGAAGAAATATACTAAACCACTCAGAGGGGAA
ATAGTTNTTAACCATTTTACCACAGGACGACTAAACCAACTACCATGGCCCT

Sequence 4169

CCGCGGTGGCGGCCGAGGTACCTTCTCTCTCTTCTTTGCAGAGGCCTTTCTGGGCTTCGG
CTGTGGCTTTGGAGGAGCAGGTTTAGCAGACAACCTTGTGGATCTTCTCTGCAGTTCCTA
CTTAACCTTGGTTTTATCTCCTTTAGCATCCCCTTCAGCCTTTCTCTCGGGCAGGGTGGC
AGCGACAGTGGTGGGACATAGGCACTGGGCAGTGGAGCACGGGCTTTGGTCGGTCTAGGG
GTCATCGCCTCTTCTTCTTCACACTGCTCTGCTTTGTGCATTTCTATTCTTTTTTGTAGC
CAGAGAAGTAAATGCATATCTTTGCAACTAACACTTCCAGACTCATCTGCAAAATCAAGT
GCACTAAATAAATAAATAAATAAATAATCAATCATGGGTCCTTTTTAGATAAGTGTTTCC
C

Sequence 4170

AGGTACGTGAAAGCGCTTTGAAGATCACAAACCCATTTAGAAATNNGTGGGTTGCTCTNN
CTCAAATCTTNGAAAGCTGCCTACTACTATAAATACATTCATTCATATCTTTCCCTCATT
CCTTTCAGTANTTTAAAAATGTATAGGATCCAANTTACATGNAANCACTTTGTNAAACAC
TCACNGGATTTACTATGAANTAACAATCCTACTATATTCACAATTNTCAT

Sequence 4171

AGGTACTTTTTTTTTTTTCTTTTTTTTTTCGGTTTGGTTCAACATTTCTTATCTGCTTTC
TGTCATAGGAAGAACACATTGAGTGTAGTATTGGTAGGATCCTTCAGCACCCTGCTTCTG
TTATGGAAGCTCAATGGGAAAATTCCTCTCTCCCCAGCCCTTGGCAGACANAGCTCATGA
TGGTAGAGTTTTTGAATGAANATGTGGTATGCTCTGGTAATGAAGCATCCAACTGCTGTG
TGGAATGTTAGTGTCTTGGCGAGAATGTTCATAATACCTAACTTCCAGAATCCCTTTGGG
CCTNACACATTTTCCAANAACTACCTCCCACCAATGTGCANGACTTTTTTATTCTACCCN
GGNAAATTTCCTTTCTTGCTTGGGGG

Sequence 4172

GGCCGCGTAATACGCTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTAC
AGGGTGTGAACAATGAAAAATTATAAAGGCATGTAATAAAAATGTTCCATAAAAACAAAG
ATACCTCAAGCAGGTCCACCTATACCTCTAGTTTAGTTTAGAAACTAATTCAGTATTTTA
AGAATCATATAATTTTAAACTTTGCACTAAGCCTAACCTTTTTAAAAAATGGTCAGGGCC
AGGTGCAGTGCCTCAAGCCTGTAATCCCAGTGCTTTAGGAGGCTGAGGTGGGAGGACTGC
TTGAGTCCAGGAGTTCGAGACTGCAGTGAGCTGTGATTACACCACTGCACTCCAGCCTGG
GAGAGCAAGAACCTGCCCATTAAAAAACCAAACAAAAATGGGCAGGTGTGGTGTCTCATA
CCTTGAAATCCCAACACTTT

Sequence 4173

TCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAACTCTGTTTAGATA
AAGAATTAAACAAAACTTCCATTTTTATTAATAATTCAAGTATAATCCATAATATGATTA
TTAGGTGTTATAACTAATAAGTTGTTATTTTATATCTTAATGTAGGTAAAGAGAACTGGT
CTTGTGGTGGTGAAAAACATGAAAATTGTTGGTCTCCACTGTTCTAGTGAAGATTTACAT
GCCGGGCAGATTGCTCTTATTAAACATGGGTCAAGGCTTGAAAAACTGTGATCTTTATTT
TTCCAGAAAACCATGTTCTGCTTGTTTGAAAATGATTGTAAATGGTAAAGTGCAGAAAAG
GGTTTTG

Sequence 4174

TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACCAAAGTCTT
TATCTGACAGGAGCTGAGCCAGCGATTTTTCAAGGCAAGACAGTGACCAGCTGAACTCCT
GAGATAATGAGTATATCATTTCTCCTTGGCAAAGGTTATGGAATTAAAGAGAATAAATAA
CTTAGTTCATACTTCCTCCCTCAAAGTTAAAAGATATTCCCTTTGCAGCGAAAAATGGAG
CTTTGAGGCTCCTTCGAGAAACGCTCCTTGGGGTTGTAGAAAGGAGGAAGAGGTTAGCAT
GATTTTAAAGCAACTGGCATCTCTGCAGCTAACCAAGTTGGAGACATTAGGGCTTCTTGT
GGCCATTAACTTTTGTGTATCTCACATCTCCTTCAGAACTTACGCTGGAAA

Sequence 4175

GACCATCCCTAATCTGAAAATTCAAAACCCTCCAAAATTTGAAACTTTTTGAGTGCCAAC
ATNACACCTCAAATGGAAAATTCCACACGTGACACCTTTGCTTCTGATGGNTCTNTGAAC
CATCAGAAACACTGTTTATTTCAAGAACAANAATTTATTTTTAAAATTTTTGGTATTAAA

Table 1

Sequence 4176
CCGCGGTGGCGGCCGCCCGGGCAGGTACCTGTCTCATATGTGGCAACTACGTGGGGCAGC
ACACTCAAGGAATGAAGGAAGTTTCAGTGAATGACAACTTTATAAAGACAGTGTTGAGGC
AGCCCAGTGCAGCGGTTTGGGAGCCAGGAACAGCGTGTGGGCCGGAGTGTGGCTGCAGGA
CAGGAGGTNAAAAATAAGGGTTGAGGGTGGAATAGGAAGACCCCGGAACGTCATNCTGGG
AGCTTGAGATTTTATTCTACATTTCTCTTGTTCTTAACTATTTATGGTG
Sequence 4177
CCGGGCAGGTACAACTTTGCTATTTATTAGCTGGTCCTTGACATGACCAGGTTAGCAAGG
TAGAAAGATTACAAAGGTTGGCATGAAGAAGGTAGGCTTGTATGAGTGATGGTGGATGAT
AACAAATCTGGGGAAATGAAATGAACTACAGACAGGACACATGCGATGTGCTTCAGAGTA
TGCANCTTTTCCAATCAAGGAAAGCTTCNTGCAGGAGGCCAAACAGAACCTGAACGCTGC
AGTATGACCTCAGGGACTCACATCACTTTNTGAAATATCTAACAAAAATCGCATTTCTGC
TGTTGCACTCTGAATTCCTAGAACCTGTGCGTGAACCATTTCACTGCATTCATTTTTCCC
CATGTTTATTTCTTTTAACCAGCC
Sequence 4178
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATCTCTAGATGATCA
CGAATGTCAAATATCACACTACACTGTGATATGGGGATTCCCCTTGGGGGTTTTCATGTG
TATAGGGTGCCTGCAGCTACACTAAACATNTTAAAGCTACCACAATGNTCACTTCATATT
TNNGCTTTTTATAGGCTTTCTTGGTCTCCTCCNATGTTCCCATCATTTTCTTGCTTT
Sequence 4179
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAGGAGAGG
CGTGAAGGCTCCCAAAAGGAAATGCTGGCACCTGGGCCCAGAAGCCAGGGCCTCTAACTC
CTGGGGTTGATTTCTTCAGTGAAGTTGCACCCTACAAAGGGAATATGGCCAAAGCGGCAC
TCAACTGAAGGCTGATATCAGGCGATTAGACAGCCATGCATTCTGCGTTTGTCTGGAATG
GATTGTAGAGAGATGGACTTATATGAGGACTACCAGTCCCCGTTTGATTTTGATGCAGGA
GTGAACAAAAGCTATCTCTACTTGTCTNCTAGTGGAAATTCATCTCCACCCGGATCACCT
ACTCTTCAGAAATTTGGTCTGCTTGA
Sequence 4180
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGGGAANTTGAGCAT
TGCTATGAANATACCTGAAANTGTGGAAGCNNCTTTGGAAGTGGNTAATGGGCNCANGTT
GTANCANTTTGTAGAGCTTAAAATAANACAGGAAGGCCTGNCCCCGGTGGNTCATGCCTG
TANTCCCAGCNCTTTGGGAGTCTGTNGTGGGCAGATCTCAAGGTCAGGATCATTGACTAC
CATTACTGGCTAACACTGGTGAACCNCCATCTNTACTAAAAATACNCTTTTAATNTTGCA
CNANTAGGAAAGANNGGAAANNAATTACCCGGGTGTTGGTAGGCAATGCNCCTATGGATC
CTAGCTGCTGGGG
Sequence 4181
AGGTACGTATCATGTAGACCGCAGGCAGTCTTAATTTTGTAGCTGGTCTGACAATCTTTT
CCTTTTAATTGGAGTTTTTTCAGTCCATGCTATAGTTTGGATATGGTTTGTCTGTCTCCA
TCAAATCTCATGTTGGAATTTGATCCCCAGTGTGG
Sequence 4182
CCGCGGTGGCGGCCGACNGGCCAGGTACNCNGGATTGTCAAGTGGAAGATCTAATCANAC
TGAATATTCATTCATGCCTTGCTTTGNCAATAGGGAAAAAAATTNCAAGGACAATCGGAT

Sequence 4183
AGGTACACGCAGTCCTAATCCGTTAAATATTTNTAGCTAACAATGCACGTGGGGCTCTTC
ANCTCTGCATACAGTCATGTTCTGCTAAAGTCCATGCAAANTATAACCACATTTTGCCCT
GCTTTTTTT
Sequence 4184
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTCCCATTT
TATGTCCAAGGTTGGNGGCTCAGCCTAAAAAAACACATTTCAAATACTCAATAATTATCA
CATGTGGCTAGNGGCTATCATACCGGCACANATCTCAACATTATTTTAAGTCTTAAATAA
ACTGATGGANAAAGATACCTCATATGAGAGAAACACTTAAAAGACAACTACTGAAATGTA
AATGAAATGGTAACGNCAGGAGTAAAGAATCTAANATGGTAAGGAAAAGGACAGCAAACC
ATTTAATTGAAATCGTCACTGAGAAATGAAAGCTNTCCTCGGATANANCAATAGGGTTTN
TGGAAAAATCAAANTTNTTTTTCCAATTATTAACCTTGGCCCCTCAAAA
Sequence 4185
CCGGGCAGGTACTATTTAAGCCAATTAATTAACCATGATCACTCAAACTTAGGCAATATG

Table 1

ATACTTATCATCTTCATATACAAAGAAAAATGGATAAACTGCCTATAACAATATAGCATT
AAAAATCCTATTGATGTTCAATATTCTGTGGCTATTAACACTGTGGGGTGTTTTTAAAAG
TCAAAAATACTGAACTGTTTAGAAAATTCTGCATAGTAGTAGTATTACATTGTGAATTTT
ATTTTCAAATTTGATCAATAAAGATGAAAATAATAAAATTAAGCAGTCAAAAGNAAGTAG
CAAAAACAAGATAGTCATTCATATATACAGGAACATATAGGATTCATTTCTAGTTTGATT
CAATCCTATTTTATGTATTT
Sequence 4186
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACANGGTAGCTTCCAAATC
TAATGGAAATATTATCATGACATACTTTCTAGTTCGTTTGAGATTCAGGGGAAATGGATG
TCTCATGGTNTATGACAGTGAAACCCCTC
Sequence 4187
CCGCGGTGGCGGCCGAGGTACGCGGGGGGGCATCACGGACCTACCAATATGTGATGTCAC
CCCTGGTGGCCCAGCTGTGTCATGGATAAACTCCAGCTGGGCCCATAGATTCTGCANCGG
GAANATCCAANGCTT
Sequence 4188
CCGCGGTGGCGGCCGCCCGGGCAGGTACCTGTCTCATATGTGGCAACTACGTGGGGCAGC
ACACTCAAGGAATGAAGGAAGTTTCAGTGAATGACAACTTTATAAAGACAGTGTTGAGGC
AGTCCAGTGCAGCGGTTTGGGAGCCAGGAACAGCGTGTGGGCCNGAGTGTGGCTGCAGGA
CAGGAGG
Sequence 4189
TCGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTT
ATTTTCAAAACACTCATATGTTGCAAAAAACACATAGAAAAATAAAGTTTGGTGGGGGTG
CTGACTAAACTTCAAGTCACAGACTTTTATGTGACAGATTGGAGCAGGGTTTGTTATGCA
TTGTAGAGAACCCAAACTAATTTATTAAACAGGATAGAAACAGGCTGTCTGGGTGAAATG
GTTCTGAGAACCATCCAATTCACCTGTCAGATGCTGATAGACTAGCTCTTCAGATGTTTT
TCTACCAGTTCAGAGATGGGTTAATGACTAGTTCCAATCCCGCGTACCCAGAAAATAAGA
AAGGGGGTTCCAAAATTGAAGAATCGCTCCTTTTGCAAAACCTTATGGTAACAAATA
Sequence 4190
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTGGNTGCCTCTATAATCATTTTGACTTTAAAATGTTTTCTGCAGATCCTTTAATA
ACTGCAAATGTAGAAGTATGGTGTAACAAGTAATTGGTATGACTAACACTAAAAATGTAA
TGGGAAATAAGGATACTATTGTAAACGAAAACAAGAAAAACCTGGG
Sequence 4191
CCGGGCAGGTACATTTCAATACAGATGCAATATTTTTTCTCAAATACTTTCAGTCCAAAG
TTCGTTGAATTCACTGATGTGGAATCAACAAATATGGAGGGCCAGTGGTGTATTTTATAA
AATCACTTGTATCAAAAGAAAACAATTTTAA
Sequence 4192
GATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTAC
ACATCTATTATTACCATGGCTGTGAGATCATTTAAGAAACAGACAAATGTCATTTAGAAA
CAGACTATAGAATCAAATCACAACTAAAGAGAATGCTTTATGATAGCTCAGACAGTGGTA
GGAAATCAAAGGCAAATTCACATTTTTGATTACTCACCCTAAAATATGCTGAAATTGAAC
ATTTGTGACCCAAGTAACTAAAAATACATTGAAGAAAACTATAACTTAACTACATATTGA
GTTCATTTCAATCGCAGTAGTCTATTTTAAAAACAACCTCCCATAAGGAATACAGGAATG
GAATCCATTGAAAGCAACAGCTGTCAAAAACTCTGCCAAGAAACTCAGAGTAACTTATTG
CATCATAAAAGGTGGAGGTGT
Sequence 4193
ACTTANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAGGCCGGGCACAGTG
GTTCACACCTGTAATCCCAACACTTTGGGAGGCTGAGGCGGGTGGATCACAAGGTCAGGA
GATCGAGACCATCCTGGCCAACATGGTGAAACTCTGTCTCTACTAAAAAATACAGAAAAT
TAAGCCCNGTCCATGGGTGGGCACGTTCCTCTAGTCCCAGCTACTCGGGAGGCTGAGGCA
GAAGAATTACTTCAACATGGGATGTNGGAGGTTGCAGTGAGCCCGAGATCGCGCCACTTG
CACTCCANCCTGGTGACAGNAGCCGAGACCCCATCTCAAAAAAAAAAAAAGTTTGTTATG
TGGACCAGCTTAACCCATAATTANAAATATAAAAAAGNAAAGTAATAAAAAGNAGAGAGN
AAAGTTAGGGGACAA
Sequence 4194
CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTGATAAATG
GAGAGACGGGAGTTTAAAATGAAGGATAAGCCGCAAATGAGGATGAAGTTAATGGATANA

Table 1

GAAAAGATGGGAGGAAGAGGT
Sequence 4195
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTGGG
TCTGAAGGGGTCACTCAAGCGCTCTGCTATCTCTGCAGCTAAAACGGGTGTCAGGTTTTC
AGCTGCTACTAAAGATAATGAGCATAAGCGTTCACTGACCAAGACTCCAGCCAGAAAGTC
TGCACATGTGACCCGTGTTCNTGGGGGCACCCCAAAAAGGCGAGGCTTGTGCTTGGGACC
ACACAANATTAAAGACCATCAACGNGGGAATTCTGCTGCTGTTTATTACCCCATTTCAAG
TTGACAACTNAGGCANCNCANAACTTCTCAGTCTCCAAATAAGNNAACTCACGTGTTTTG
GA
Sequence 4196
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATCCTGAACCATCCAGGCCAAATAAGC
GCCGGCTATGCCCCTGTATTGGATTGCCACACGGCTCACATTGCATGCAAGTTTGCTGAG
CTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGAATGGCCCTAAATTCTT
GAAGTCTGGGTGATGCTGCCATTGTTGATATGGTTCCTGGCAAGCCCATGTGTGTTGAGA
GCTTCTCAGACTATCCACCTTTGGGTCGCTTTGCTGTTCGTGATATGAGACAGACAGTTT
GCCGGTGGGGTGTTCATTCAAAAGTCAGTTGGGACAAANAAGGCCTGCTGGGAGNCTGGC
CAAAGGGTTCAACNCANAGGTCTTNCCCCAGTAAAAGGCTTCAANAAAGGGCTTAAAA
Sequence 4197
CCGCGGTGGCGGCCGAGGTACCATGTTTTACTATCCTCAGAAAATTCCCAATAAACCAGA
GTTTGAGGACAGTAATCCTTCCCCTCTACCACCGGATATGGCTCCTGGGCAGAGTTATCA
ACCCCAATCAGAATCTGCTTCCTCTAGTTCGATGGATAAAGTTTCATATACATCACATTT
TCTTGAACCAACTAGACAAGAAAACTGGACACCTTTGAAAAATGACTTGGAAAATCACCT
TGAAGACTTTGAACTGGAAGTAGAACTCCTCATTACCCTAATTAAATCAGAAAAAAGGAA
GCCTGGGGTTTTACCAGGTAACNCAAAGNGCAATCAGNAGAAATTTGGGGTTGGTTTATT
GTTTCATTGATTGTCATTACCANGGAATCCAGCCCAAAAAGGTGGATTGGGAAAG
Sequence 4198
ACTATAGGGCGAATNGGAGCTCCCCGCGGNGGCGGCCGCCCGGGCAGGTACATGGGACTA
CAGGCACGCCCCACCATGCCCAGCTCATTTTTGTATTTTTAGTAGAGACAGGGTTTCACC
ATGTTGGCCAGGATGATCTTGATCTCTTGACCTCATGATCCGCCCCTCTTGGCCTCCCAA
AGTGCTNGGATCACCAGGCGTGGAGCCACCACACCTGGCCCTCTATTTATTCTCTTTAAA
GAGAGAGAAAACTATTGAGAGGCCAAAATTATTTAATTAAATCTTTACCTTANCACAAGG
GAAAAAATGGGAATTTGCCTAATATAGGTGATGGAAAGNCATTACACAAATGAACAGTAA
ANCANTCACATTTNTTAGTAATAAAGGGCAANAAATTTTGGAGTACTTATTAAAGCT
Sequence 4199
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGTCCCAGAGAGCTCGTAGGGGAGGACA
GTCAAGGGACTCAAGCGTCTCTCTTGACTCCCCTTCTCTCGCTGTGCAGTGGCGGCGCCG
AGGGGTCGACGCTCAGGGCTAATCTCTATGAGTCACCCTCGAAGGGCCCCGGGTAATATT
GGGTGGATCACAAGAACTAATCTTTCATGATTTGGAAACCGGAAGGAAAGAAGCACTTTT
GTAGCTGACTTACCTCAATGACATGACCAGTGTCTGAGCCTACAACTGCGCTATCTTCCC
TGGGATTTTTCTTCACNCTTTTCCTTACTTCATGGAGCCCAGGGTATGGTGTTTTTTAGT
TCCATTAAAAAAAGNAGCCCCTTAGCCCAAGGCCGTTGGGTG
Sequence 4200
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATACTAAGCCA
GGGCAGAATGCTTGTGAAGTAGCAACTAAAGTGGCAGTGTTTCTTCTGAAATTCTCAGGC
AGTCAGACTGTCTTAGGCAAATCTTGATAAAATAGCCCTTATCCAGGTTTTTATCTAAGG
AATCCCCAAGAAAGACTGNGGGAATGGAGAGACAGTCAAGNGGTTATTGTCANTAAAAGG
GATGAGTATT
Sequence 4201
AATTGNAGCTCCCCGCGGTGGCGGCCGAGGTACTTTANTTNTAAGGTTAAATTCCANAAA
CANATANTTTNCCTTTNTCTTTNGCCCCACCCCTGCTCAAGATGGGCTCTT
Sequence 4202
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTCANAGTATTTTCTTTCTTGTCCAGATTAGCTAAATTGGATTGTTCTATGCTAAATTC
ACTTAATCACTACTCTATTATTTTTGAATTTTTTAGTTCTGTTTTTTTCACTTGGTTCTT
TTTTTAAAAAAAACTTCTACTACCTTTCTGAGACTTCTACTTTTTTACTTTTTTCAAGAA
GCTTTATAATTACTTGCTAAAGCATTTTTACCATGACTGTTTTTAACTTNTTCAGATAAC
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Table 1

GATTT
Sequence 4203
TATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACTTTTTTTAATTTTTTTTT
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TCAATGTTGGTTCACGGCAACCTCCGCCTCCTGGGTTCAAGCAGTTCTCCTGCCTCAGCC
TCCCAAAGGNAGCTTGGGATTACAGGGCATGCNCCACCATGCCCCACTAATTTTACTAGA
GACAGGGTTTCTTCCATGTTGGTCAGGCTGGTTCTCAAACTCCCGACCTCAGGTTGATCT
TGCCTGCCTCGGCCTCCCAAAGGNGCTGANAATTAATAGGGCATGNANACCACACGCTTC
CGGNCTA
Sequence 4204
CCGCGGTGGCGGCCGAGGTACTCAACAAATAATAGCTGACAAGTTTGATAGCCAGAAAAC
GGCAAAGCTGGGATGCAAACCCAAGCAGTCTGACTCCCAAGCCTCTTAACCATTCTTAAG
AGACCACCTACCTCCATTCTTCTTCGAACACATGTTTTTCCTGGTTTGCCACCTGAATAC
GTGGAACCACCATCCACCCAGCTGGTTAAACCAGAATCACTCAGAAATCTACCTCTCCTT
CATATTATTCATAACTGCCAGTGTTAAAATTCTAATTGCTGGCCAGGCCACCGGTGGCCT
CATGCCCAGTTAATTCCTAGAAACTTTGGGGGAGGCCCGCCGGGCAGGGTGGGATCACCG
AAGGTCAGTGGAGGATTCGAAGNACCCATTCCCTGGGCTTAACCATTGGGTGG
Sequence 4205
ACGCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTT
TTTTTTTTTAGAGAAAATCATTATGTCCCATTCTTCTTTTGAATGCTACTTTTCCTTCTC
TAAAAACTGACCATGAATTATATTCTCATTCATCAATTTCTTATTTCTTTGTCAGAAAAG
CAGTTAAGCCATTTTTTAATTATTTATGCAANGTATTNNAACATTCATTGTTAAAAAAAA
TAAAAAAAACCNAAACAGGCANGAACTTTAAAAANAAAAAGTNTACAGACTTTTTCATCT
AT
Sequence 4206
TAGGGCGAATTGGAGCTCCACTCGCGGTGGGCGGGNCGNCCGGGCAGGTACNGTGCCACC
ATGCCTAGCTAATNNCTTTCTTATTTTTGATAGACACAGGGTGTCACTGTGTTGCTCAAG
CTAATTTCAAACTGTATTATCTGAAGCAATGTCCCTGCCTCAGCCTCTCAAAAGCGGTTG
GGAAANTATTACGNGCCATGANGCCCCAGGAGGCTCTTAATTAATTTCCTATAGACTGCC
GNGGGCCNTGGNATTTACGNTTNNGGATTACCCATTTGTTNGACTGGACCTGGTTATTTN
CACGGGGGCCATAAAGGAAACTAAATNGGTTACAATNTAGGCCAAGTAAATNTTAATNTN
CNAAAATNAAANAGATTTTTTGTTAATTGGGANAAGNGGGGNTT
Sequence 4207
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTNTTTTTTT
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AANGGTTGNGAACANNGAGAAAGAAGAAGAGCTTGACAGATACCCTGCCTGGGCNTGGC
Sequence 4208
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTT
TTTTTTTTTTTTTTTTTTTCTTTTTAAATAACAAATTTATTTTTCACAGTTCTGGAGGTT
GCCCCAAAAAGCTTTTATTATCTAAATTAGGGTTAATGCACTTTTAAATCATAATGTTAA
CATTTT
Sequence 4209
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GTGGATTTCTTGGCCCACCACCTCCTTCTGGGAAGTTCTCTTGAACTCAAGAACTCTTTA
TTTTCTATCATTCTTTCTAGACACACACACATCAGATTGGCAACTGTTTTGTAGCAAGAG
CCATAGGTAGCCTTACTACTTGGGCCTCTTTCTAGTTTTGAATTATTTCTAAGCCTTTTG
GGTATGATTANNAGTGAAAATGGCAGCCAGCCAAACCTTGATAGGTGCTTTTGGGTCCTA
GGATGAATTTTTTATTCAAAAATAAAGTNGGATTTGGATTAGTTTAAGTTTCAGGTAAAT
GGTTTTATGGTAAATGG
Sequence 4210
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AGGTAAGGATTCATGAGACCTGAGCAGCCAGCCAGCCCTGAAATGGTTGGAACAAGAGAA
AGAAGAAGAGCTCGACAGATACCCTGCCTGGGCTGGCAGCTAGCTGCACCACAAGCTGGC
CAGCTGACAGCGGGCACATCCCTTCATCACCCAGTGCCTTTCTTCCCTCTTGTGAAAATG

Table 1

623/863

GAGATATGCTGAGAAAGGTTTCTTCAGCTCATCCAGAGAAAGCCTTCTTCAGCTAACTAA
GGGCTGTAGAAAAGGGGCCCT
Sequence 4211
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AAGCTGGCACCATACCAGCGTGACTAGAGTCACCTCCCTTGGCTCCTTGTCCACTGCCCT
TTGCATCTCATGCGGGTCTCCAGAAGACCCCGCTCCTGCTGTGCAGGCTCCCACGCATAC
CTTAGACACTGCTGTGGTGTTGGGTGGCCACGTGACCCACACAGGCCTTTTCTAGTTCAC
CAGTTTTCTGCAAGGATGCTGGTTAGGGAGTGTCTGCAGGAGGAGCAAGTCTGAAACCAA
ATCTAGGAAACATAGGAAACGAGCCAGGCACAGGGCCTGGTGGGCCATCAGGGACCACCC
TTTGGGGTTGGATATTTTGCTTAATCTG
Sequence 4212
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGGCATCACGGA
CCTACCAATATGTGATGTCACCCCTGGTGGCCCAGCTGTGTCATGGA
Sequence 4213
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTAGTGCACTCTTGG
CTCACTGTAGCCTCGACCTCCGGGGCTCAAGTGATCCTCCTGCCTTAGCCCCACAAGTAG
TGGGACTATAGGCACACACCACCATGCCCATCTAAGTTTTTGTATTTTATGTAGAGACCA
AGGTTTTCACCATGTTGCCCANGCTGATCTTTGACCTCCTGAGCTCAAGTGATCTGCCCA
CCTCGGACTCCCAAAATGCTGGGATTATAGGCGTAAACCACCATGCCTGGCCTTAAATCA
ACTTTAGAGTCAACATCTCTTATCACTGGGAGCTTCTAGAAGAAAACTCCATCACGTGGG
TGCTCTCTTTCCTGGATGTGTTGTGCCCCAAATAGCCTTGGTTCTCATTCAAGATGACTT
Sequence 4214
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GAGAGAATCAACAACAAGAATCACATTGCTAAAAANAACAGGCCTTATTTCTTAATTCCA
NAATTGCTTCAATAGTTATTCTCTGAGGCTCCAGNGTCTTTTCTGTCCAAGCTACTGTCA
GGCAAGTGCCCAAAAGCNCCACTCATCACATGTGCGTAATACCCGAANAATGTATACAGG
NTTCTTTTGNGTCCATTGCTTTTTAGTTCTAAAAT
Sequence 4215
CCGCGGTGGCGGCCGCCCGGGCAGGTACATGCACTGTAGGCAAGTAAACGAAACCAAAGG
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CCCATGAACCTCTTGGAAAACTTCTCCTGTCCCACTTCTGCCACCCTCCAGCTCCTTGAG
AGAGCCAGAGTTGAGAAGAAAATGAGCCTGAAGTTGAAAGGGAAAGTTCTTGCCTGAAAC
AGTGCTGGGAATAAGTCCAGACCATTTCCCTCAAGAGCCACCTCTTCACTCCTTAAGCCA
GNAGGACACNCACAAAGACACAGNTTAATGGCCTTCTCATGCCCACTCCTCAGGTTGGCT
TTGTGAGGGGCAGGCCAGTTGGAGGGGACCTGGCAGGGATTTTTCAG
Sequence 4216
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTT
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NCCTCCTGNATAGGCCTNCCAAAATGCTGGGATTATAGGCATGANCTACTGCACCCTGCC
TTTTGTTTTTAANATAAATTCCTCANGCTAACANAATAAGCTATTAACCACATTTTNTAC
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TTCTCTAANCAACAACAAAC
Sequence 4217
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AAGGGATCTGAGAGTTTTTAAAGCAAGTAGAGTCAATCAGAGTTTTGAACATCATAGTAA
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ACAACAATATCATAACTGTCATTAAAACAGATGGTCCAACCCCAGGGAGCAGGATAATTA
ACCTTGGGGCAGCTTCTTGTGGGGGGAACAAGGACCGGGGGAAA
Sequence 4218
GGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGGCATATGCTCTTCA
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TGAGGCAGGCAGATCGCTTGAGGTCAGGAGTTCCAGACCAGCCTGGCCAACTTGATGGAG
CCCCATCTCTGCTAAATGCAAGAATTATTAGCTAGGCATGGTGGCGGGTTTCCTGTAGTC
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Table 1

NGTTTGCAATTTGANGCCCAANGTANNCNTCGCCCATTTGCNACTTTTTANGCCNTGNGN
GGTGGACAATGGAGGCATAAAAACCTTCCAATTCTTTCNAATAAAAGGAAA
Sequence 4219
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAGAGTAGC
TGCCCCTTCTCAGGGCAGATGATGCTTTGAGAACATACTTTGGCCATTACCCCCAGCTTT
GAGGAAAATGGGCTTTGGATGATTATTTTATGTTTTAGGGACCCCCAACCTCAGGCAATT
CCTACCTCTTNACCTGACCCTGCCCCCACTTGCCATAAAACTTAGCTAAGTTTTGTTTTG
TTTTTCAGCGTTAATGTAAAGGGGCAGCAGTGCCAAAATATNATCAGGAGATAAAGCTTA
GGTCAAAGTTCATAGGAGTTTCCCATGAACTATATTGACTGGGCCACACAGGGATNCTTT
TGGTATTTTAAGGGATTTCTGAGATTTTTGCTTGGANCAGGGGATTTAAGGATAAAGGGG
CTNGTTCCTTTTTAAAATTGGTCCTGGAAAAATGGGGAAAC
Sequence 4220
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTTTTATGTGCTTAATT
AAAGACTGTAAAACGTAAAGGATCATTCTGACTTTTTTTATGAGTTTTTTTTTTCTTTTC
CCCTGTCTAAATTGTGTGTGGGCTTCCCCAGTTTTAAACTCCTATCTTTTTCTTTAGTGA
TACCTTACTTGATAAATGGGACTTGGGAATAGGTTTAACCCAGNTTTGCATTCTCCAAAT
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TTTCCATAATATCTTTTTGGAAAAAAGNAAAAAATTACCCATTTGTGGTNATTGNGCTTG
GTGCCA
Sequence 4221
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ATCCTCANAACGACTTGCAAGCAGCTGCCAGGGCTCATCGCATTGGCCAAAACAAGTCTG
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GCAGCCTCCAAACTGCAGCTCACCAACATTGATCATAGAAGGAGGCCATTTTACTCTGGG
AGCCCANAAACCCGCTGCCGATGCTGACCTCCAGTTGAGTGAGGATACTCAAATTTGGTT
TGGGATAAAACTGCTGGCCCTC
Sequence 4222
CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT
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TTCCCATGATGAGAAAATCCCAATTNGANAANAANCCTAAGGCTTAAANATGGCAAGAAT
GGGGAC
Sequence 4223
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TTCCCCACTGGGTGATTGAAGGATGGAGGATTTTTGAAAATTTGACAGCTACATGAAACA
TGAGAAAACATTTTCCTCACTTCTGAAGTCGGTTTGCAGCTGGTAACTTGTTCATCCAGA
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TGGTNAACCTTAAAGACAGGAAAGGAAATTTTCGTAAAATCCCTTGGAAAAATTTGGAAA
AAAAAAAAAAAAAAATTTGGGGGNTTTTTTTAAAAAGA
Sequence 4224
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TCTCCCTCCCGGGTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTAGCTGGGATTACAG
GCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATG
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GTGCTGGGATTACAGGCGTGAGCCACCACGCTCAGCCTACAAGCAATTTTTTAAAAACTG
ACACCTATTACTGATAAAATTCTCTGTTTAAAATCCTATTTTACTATTTTTAAAGGATAA
GTATTAGTTTTTTTTTAAAATACCAAATAATTTCTGTTTATTTGGATAAAAATTTAAGGG
CATTT
Sequence 4225
CTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATACAAACAATGAAA
ACAAATCACATCCTTAGGTTCCATGATTACCGAGATGATTTCCCCTGCCCTAAGTGCTTT
ATTATATTTCTTAAAAAATATAGGAGCAGCAGCTTATCACAAGTCTCCACAAGTGCATTA

Table 1

ATGATGGAATCAAAACAACACAACAGGATTCATAAGGATGAGAGAACTGCAGAACAACCA
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GTAAATATTGCTGCTGTTTGAAGTAAACTTTAAAATGCTCCTTTTATGGCAACAAACGGC
AATTCCCACCCTAAAAATAATAAAGGGAANAATTAGCCTTTTTTATAATGGCANGATTTT
AAGAGGAAACCAGG

Sequence 4226

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGCAAATG
TGCCACTTGAATATCTAGTATGAAGCTGGTAATGAAGAAATTGCCATTTCTGAAGCAGAT
ATGAAATATGATCTGCTTAATTGTTAAGGCAACTGACCTTTCAAAAGTGCAGAGTCTTAT
TAAAAGAGGGGAGGGGGTAGAAGCAGAATAATAGTCATATGTCTAACCTGCCCCAGTTAA
CTCCTCTTGTTAAATTATAAGCCAGTTATTTTTTTTAGATAGTATTTTTGTCACTTGGAT
AATCACAGGAAATATATAAGNAAAAGAGCCTTGGACTAACCTTGAGGAAAGTTTGGGACA
TGGGAAAAGCAAGNACCCAAGNTTCCCAGGTTGGGGTTTAATTTTTCCCTCTTGGGTTTA
TTTTTT

Sequence 4227

TCACTACTATAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGGG
ACTACAGGCACGCCCCACCATGCCCAGCTCATTTTTGTATTTTAGTAGAGACAGGGTTTC
ACCATGTTGGCCAGGATGATCTTGATCTCTTGACCTCATGATCCGCCCGTCTTGGCCTCC
CAAAGTGCTGGGATCACAGGCGTGAGCCACCACACCTGGCCCTCTATTTATTCTCTTTAA
AGAGAGAGAAAACTATGAGAGGCCAAAATTATTTAATTAAATCTTTACCTTAGCACAAGG
GAAAAAAATGGAATTTGCCTAATATAGGTGATGAAAGCATACACAATGAATAGGAAACAA
TCACATTTTAAGTTAAAAGGGCAAAAAATTTGAGGACCTTATTAAGCCTATTATTGGGTA
GCTTATTTTTTGGGGTGGGG

Sequence 4228

CCGCGGTGGCGGCCGCCCGGGCAGGTACCCTGTCTCGTTGAATTTTTACAAAAAACTGAA
AGAGTTAGTTTTGTGTTATTACTACCTCCATCTCAAAGATGAGTCTTGGAAAGCTTAAGT
AACTTTAGGTCACATTGTAATCAGTGGCAGAACTGGGACTTAAGAACATAATTCATGACT
GCATTTTCTTTTCTTTCTTTCTCTTTCTTTCTCTCTCTCTCTTTTTTTTTTTTTTAAAGA
GATAGCATCTCACTCACTATGTTGCCCAGACTGGTCTTGAACTCTTGGGCTCAAGCAATT
CTTCCACCTCCGCCTCCCAAAGTGTTAGGGATTATTAGGGCANTGGAGCCCCTCATGCCC
TGCCCCCTTGGCATTTTTCTATTTTAAA

Sequence 4229

CCGCGGTGGCGGCCGCCCGGGCAGGTACTATATGGACACCAACATGGAGCAGAAAATGAG
GGCAGCAGTGTCCAATCTCATTCCAGGTGAGAAGTTGCACAGTGTCCAATAGGTGCATAC
ATCTCCTTAGTAAGTAGTTGTGATTAACAATGAAATAGAAATGAAAAATATATTTTTTTA
TTTATGTGTATTATATTTTTCAAGCAGCTAATAAGTTGGTAGGACATAATATTTAATTCG
TTGGGGACCTAATTATTTATAAATTGAATGGTTAGATATTTCTTTTGGCCTAAGCCACCA
TGGAAAAAATCACTGAGGGCGCCTAAGGGGAAAACATNGAACCTANAGAAGCCCCTTCTG
AGTTCTTCTGGTTTTCTCAACTGTAAGGATGAAAGNAAACCCTG

Sequence 4230

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGAAACAAAAGAGATA
ATAAACTAATAGTTATTTAATATGCTGTAACAACAAATTAGAAACATTGAGAATTAAAGT
GTGTTTTCTTTGTAACAAACTTATCAAGAGTAGTTTGAACAAGGGTTGCCTTCTTCTGGT
ATAATTTAGATACATATCAGAGCAAACATCTTTTCTGTGGCTTTGCAAGTTGTCATACTG
TATTTTGTTTGGATCAGCTTCCAACATTTTATCTTTTATGCTTTCAGTATTGTAAAATAC
CTCTCAGTTNCTTTAGCATGCAGTTTTTTTTTTTTGTTAGNCGTCTCCTTCCTCTAGGGA
ACGTTTGGTCATTTC

Sequence 4231

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGGATT
TTAGATTCTACTAATCCAACCCACTCTAGATGGTTTTCTTCTGTTGATGCGCTGGCAGTC
AATACTATATAATGTCTATACTTTTGAAAGAAATTCGGTGGCTCAAGTAGTTTGGACCAA
TCTGACTTTCCTTGAAGAATTTCATCTGTGACTGCAAGACCTTGTTTAAATTCTTCTACC
ATTACTGTTCGAGTTGATGTGGACACATTATACGTAGAATTCTGTTGTGGGTAGGCAGGG
GTGATTATGGGCATGAGATGATACCCTATCTGATGGGATTTACCNCGAGGATCCCAGGAC
AGGGCAAAAATNCAAAAATTTGCTTTTCTTNCTGGGTTTGCTTCAAGCAANGNCAACAAG
GGGATTTTGGGCACATTCCCCCCACTT

Sequence 4232

Table 1

ACTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTNGGTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAATTANCTATTCT
GGNGGATGNGNAANAGTATCTNATTGNGGGTTNGGTTTTCATTTCCCTAGNGACTAANGA
NGTTGAATGTCTTCTCAGNGCCTATNANTGGTGATACTTANTCAAAAAATNNTTNTGNGA
AAAACCTGACCTTGNGAAGGTAAAANCTTTTGNNCAATAATGTAATTTTAA
Sequence 4233
CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTAGTGCACT
CTTGGCTCACTGTAGCCTCGACCTCCGGGGCTCAAGTGATCCTCCTGCCTTAGCCCCACA
AGTAGTGGGACTATAGGCACACAGCACCATGCCCATCTAAGTTTTTGTATTTTATGTAAG
AGACAAGGTTTCACCATGTTGCCCAGGCTGATCTTGAGCTCCTGAGCTCAAGTGATCTGC
CCACCTTGGACTCCCAAAATGCTGGGATTATAGGCGTAAACCACCATGCCTGGCCTTAAA
TCAACTTTAGAGTCAACATCTCTTATCACTGGGAGCCTTCTGGAGAAACTCCATCACGGT
GGGTGGCTCTCTTTTCCTGGATGTGNTTTGTGGCCCCAAATAGCCTTGGTTCTCATTCAA
GAATGGACTTATT
Sequence 4234
TGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTCTTTCTGATCTCTTTTTCATGC
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CACGAACTGACAAAATCAAGTCACGGCGCCTACAAAGATGAGGGGCAGATTCTGGCTGCC
TTTTAATTTCGTCCTTCACCTGATATCTGTGCCAGAGAATGATAAAAATCATAATAAAGG
AAATAATGGAAGAGGAGACTTATGTTACTGGGGACATCTAACATAATTATTTTCCTGATT
CAGTGGCATGGTTCAGTCTTCCAGGAGTTCTGCNTACAGAGAAGNAGAGTANACCCCCAT
TCCATCATGGGCCAAAGGCACCCCAGGTCAGGGGCTCCGGCTCTGGNATCCAGCCCCGAC
AAAAT
Sequence 4235
AGGTACCTGACTCATCAACTCATCTGTCGCAGGTGCTCAGTCGAAATTTGTTAAATAAAT
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GTAATTAAGGAGTGGGTCGTGCTGTGGGAAGTGCTGTGTCAAGACACCTGAGGATGGAAT
TGGTAGCCCTCTGTTTTGGGACTGGTTCAGATGGTGTTTTGGGTTCCTTTCTATGACCTT
TATCTCTGAAACTTGATTGTCTTAAAATGTATTTTGTGG
Sequence 4236
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTGAACATATTATAATTATTTCAAAGTCCCT
TGTTAATTCAAACATCTGGATCACTTGANGGTCTCTTTCCCGGTATCCGCCTTCCTTNAT
TTTTAANCTAGGNCCCGGCCTCTTGGCAAAAGCTATTTTTAAATGGGGGGAAANACATTG
GTTNTTAAAAACCGGGAAGGNGTCCNAACCGNGGGTTTAATTTNNCCCAAAAAAGGGNCC
TTTTTTTTTTTTTTTTTTT
Sequence 4237
CCGGGCAGGTACCTCATCAATATGTGCATTTATTATTTGCCAATTAAAATAATATAAAAC
TCTTTAAAAATTAAAAACCATATATTTCCCTAGTATTTCTGGGATGATTTTTTTTTCTCA
ATGACTTTTGAGAATGCTTTTGCTTTGTTCTCAAACCTTTGATAATCTCCATCATTACTG
GTTGGGTATCCCTTATCTGAAATGCATGGGACCAGAAGTGTTTCAGATCTCAGATTATTT
CATATTTGAAAATATTTCCATACAGATAATGAAATATCTTAATAATGGAAACCAAGTATA
AACAGGAATTCATTTATGTTTCATACACACCTTATGCATGT
Sequence 4238
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTACAATTAACTAAACTTTTTTTTAA
ATTAACTAAAGTTGGTATTTCACTAGGACGATTTAGCAGATGAAATGGGTTTTAAGTTTA
NAACACCATTTCTTCTTCCTTATTACATTTCCCTTTTTAATGTTAGCCCTCTACAAACAC
ACACATATACACACACACACACACACACACTNTGCATCAAAAAAGCCTTCCTACATTAAT
ACTTGAGCATGATAACCTTACAATGAAAGGTAAATCATTAGTTGAATCATGAAACATTTT
CTTCCCCTTGTGGAGAAAAATCA
Sequence 4239
CCGGGCAGGTACNTTTNTNTNAANCCTGNNGACTGGCTGGCTGCTGNTCAAGGCCACATT
AGTTTATTGTTAAGTGCAAGGTTTCTGGTAACAGAAATAAAGAATTCAATTGATTCATCA
TCAAGACCAAATATATTTACTAAAGATCTACCTTAAATTCATTTTTTAGCAGGTAGTATG
GCATTGTGGTTAAGAATTTACATTTGTGAACATTTACCAGCTGATGACCGAGGTGAGCTT
CTGTTTCCTCCTGCATAAACTTGAGATTATAAAAATCCCCTAGTTGGCTGGGCACAGTGG
CTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGCA

Table 1

Sequence 4240
CTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTGTTTCTGT
TGAGTGTGGGTTTAGTAATGGGGTTTGTGGGGTTTTCTTCTAAGCCTTCTCCTATTTATG
GGGGTTTAGTATTGATNGNTAGCAGGTGCGNCCGNGNNNGTNATNANNCNCAATTCNGGG
GNAGGTAATATCNGNNNAAANAGANGACTACACAAAACCANACCNAANACTNNAACCNCC
CNACNCCNCCNANACCNAACCNNACNANAAAANCNANNACCCAAAACAANNNCACANNAC
CAAANCNNCACCNNCANNANNACCNNAAC
Sequence 4241
AGGTACTTCCCATTGTAAATCACATTTTTAGATAGTCCAGTGGCCAAAGCCCCCAGACGA
ACAAAAACACTCGTATCAGCCAAGACATGCCAGAGGCCTAGTGATTGTTTCCCAGTAGCT
GAGGGCAGAAGCCAGACCTCTTTCAATAAGGTTGATCTTTCACTGTATTAACACTGTATA
TAAAGGACTTTTATAAAAGCTTGTAGTTATGGTGTTATTGTCATCATCCAGTTTAATGCC
CTCTTTTTTTCCAGTAAGAAAAGAAAGGTCTGGGATAATCATGTTAATTGATTTGTTTACA
TTTTCATTTTAATTAGTAGCACAACTGAGAGTGAAAATGGAACC
Sequence 4242
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAATTTTTTTAACAGG
AGAAAGTTTAAAACTAGAGCTCAGGGGGGAAAAAAAGCCGAGAGAGAAAGGCACTCTGGA
CGCTANTGAGTGGGGACGGTGGTGGAAATG
Sequence 4243
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGCANCCCTAANNC
GTCAAATATTNNTAGCTAACAATGCACGTGGGGCTCTTCAGCTCTGCATACAGTNATGTT
CTGCTAACTCCATGCCACTNTNACCACTTCATGCCTGCTTTTTTGA
Sequence 4244
CCGCGGTGGCGGCCGCCCGGGCAGGTACCAGGAACAGTCAAAGTCACTGAAATGCTTGGT
GAGACATATGATCATTNGCTTTCTGCAATAATTGCCATAGACTTATTTCTTANGTCCCCC
TACCCCAAATGCTAAATTGAAACCCTACCTTTTTTTNCAGANTATCCCTNATTATGAACT
TGATGAAAGATACCANGGAAGGTATCTTTTGTAAAGGCAAGGTGGCGTCATCATNACTTA
CCATACCAATCAAAGGAAAACCATTCCCAATATGTAAATGGACCAAGGAAG
Sequence 4245
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATATCAAGCAA
TTCAGCTTTTTCTTGTGATGTCATAACTTTCCCTGCTTCTTGGGGAGCAGTTCCAGCATC
ACTAATAGTGCTTTGTTTGGGCCACTTGTTATTTAAGGTTTATAATAATCGCACTAAACA
CAATNGAAAAACAAAAGGAGAACATTGAGAGATCACTTTAACTTTTTATAATCAGTTTAT
GTGTATTTTATGGTAGTAAATGATAAAATAGCTAGTATCTACATACAGTTTATACATTTG
TGGCATACCTTTCTCTTAATTTTTAAGGTATTTTTAGGCTACTTGGCTCATCTNANTTTT
TCANAAGNGTTGCGAGNTCTCCAAAAACTTCTCAGTGTGTTTTACTGGAAA
Sequence 4246
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAAACAACACAT
ACCTGTTAAAAGTGTCAGGTTTTAACCAAGCGATTTTCCATTAAATATTCTCCCAGATGC
TCTGGAAGTTTTTTCGTGTATCTAACAAAAAAAGTAAATTTCAAACGATGCAACAGTTCC
TATTCCTGGNAAATCAAACAGGTTTACTCCTTTAGTTTGGAAACTAAGCTTAACTAAGCT
CTTACCTTTGCATCTTCAGAGCTGCTCCACTGTGCCACTTAAGACAGCGCCATTGTTCCT
GCGGGAAATCGGTATTTAAGCATTCTCGCAGAAAATGTCNCACTCCAAGGCGGTTTTTCC
ACACNAAAACCCTTTCCCCTTTCATTTNNATTCCCG
Sequence 4247
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AACACTAATATCTTTGGGATGTTATCCCCTCTCTGAAGGTATACAAAAAATAACTTCTTA
GGATCAGCTTAAAGGAAAGGTAATCTGTATCTTGGCGAAGAAAAAAAATAACTGAGAATT
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GAGACCAACTCAAAAATAAATTGCACAATTAGCATGATATAAACGCATATGGTCAGTTNC
TACAGCAAGGACAGGAAGGGCTGNTACTTCCTTTTGGTGTTTCATAATTTTTTTTTTAAA
ATCCTCTTATTTTTACTTTA
Sequence 4248
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGGACTTGCCTAATTTCTAGGCATGGAGTTGG
GGCTTGTAACAATGCTGGGAGATGGGCAGTGCTTTGGGAATGTAGCTGACCACTGCATGG
GTGCTAACTAGCCCAGGGATCTTAAAGAATTTNTGTATGCCATGAGGATCCACTNCANCC

Table 1

ACTGAATAGTCATAGAATTGAATCTAGGACATCACCGTATGCTACTACCATGCAGTTTTA
TCCCTTCTAAGAATCCAAATGCCCTAGATTTAATTTC
Sequence 4249
ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCTCTAATT
CCAATAGATGAAACCTTAATACTTGTATGGCTTGAATCATCAAGTTATCCAGTTCTGGAT
TAGAAGAAAATAGAGGTTTTTCTGCGCGAATCTGTTTGGCGAACACGGCTATATCTTCAT
TGAATGACTCTGACGAGCAGACGTCCCCGCCCGCCACCCCCGGCTCGCGGGGGGTACAGC
CCAAGACGTTATGAATACCCAGGGTTTAGCCTGATTTGGTAAAAGTGATTGAGATAAAAT
GTGAACAACAATTGTGCATGACATTTACTTGGCATTTTCCAGTTTCCAGGGGGCCTGTCT
CGTTAGCTGTCTCACGTGGAAAGCCACTTGGAACTCGCCGA
Sequence 4250
CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTGCTTTTAAAC
CAACANGATACTGGGAAGGGGGCACTGAATACTTACACACTGATAGAACTGCCCACGCTG
ACCTCCAGTCACAAAGCGCTTCCCATCTGGATTCCAAGCCACACTTGTCAAACTGTCTTC
ATGAGACTGGCTCATTTTTGTCCTTAGTTCTCCTGTCTATAAGGAAATAAAACTGTAAAT
GAGACCTTCAAGATACCCCTCTAAAGGAAATATATGAGAA
Sequence 4251
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GTGATAATGCTGCCTAAAATAAAACTTCTTAAGTATGTAGANAGTATCCCATTGGNTAGA
TTTNCCCGTTGTTTGTCCCNTCTAATATATAACNCTTGTTTTAAAAGGAAGACCANCAAN
TTANNTTAACNCANANTGTATGTCNAAAAGNTTTTTTTTTATTCAATGNCNCCCAGNCNA
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NNACCNCCAATAATTNAAGCGTCTTCTAATTTTNGGGGNTTTTNANNCCTTNGNGTTCCT
TTTNTNGNGGGTTANGNNAATNTCCCCCAATTNNNNTTTTATTANACCCCCCCCNCNANA
TAANTTCTNCCAACCCAATTNTNCCCNACCNCCATTGGGGTTAATAACCCCCTNCCAAGN
NAAAAATTTGGGNTGNAAANTATCCTTTTAAATTTTTTTTGGGGGNAAANAAATTAACAA
GNNTTAATAGCTTTTACNCCTTTTAAAA
Sequence 4252
CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAATGAAA
AAACTCTTCTCAGTCATTAAAACATGAGTAACATGACAACTACAAAGCTTTCTCAGGAGT
AATAATAGAATGGATAAGATTTAGAGCCAAACAAGTGACTATGGGGACTCACCCATTTTC
TATTTATATTGTATAGAACTCTTAAAACAAAGCAAAATAAAACAAAACCTGATTTACTCT
TTAATTCCCAGAAAAAGCTTTCCTTTTCTTCCACTCATTTGTATTTCCTTAAACAGCTGT
AAATCAGCTTCTTGTATTGTGCTGACAGAGAAAATAAACAGTGATTGCCATTACTGGAAA
TTTAAAAGGTTAAATATTTAGGTATTTTACATGGAGCTTTTTATTGAAGGAAAATGG
Sequence 4253
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AATGATAGAGACAGCTGGGTGACCACGGGTGTTCTAATGGGAGAGACTCCTGGTCAACCC
CAGGCAGTCTAATTATTAAAGACACCTGGGCTACCCCAGACATTCTAATGGGAGCAACTC
CCGACCAACCCCAGGCAGTCTAATGATAGAGACATGTGGGCCATCACAAGAATTCTAATG
GAAGAGGTTCCTGGCTGACCCCAGGAGAGACACCATTCTAATGGGAGAGACTCTGGGCCG
TTTCCAGGCTGTCTAATGANTAGAGAAACCTGGGCGACTGCAGGGCATTTTAATGAGGAG
CCGGCTCCTTGTTCCCGAACA
Sequence 4254
CNCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGGCTCAGCACGAACACCTTCTGCTCAAC
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AAGAGGCCCAGTCCAGAGAGGTGAGCAGATGAGCTTTGCTGTCCTTGCCTTCCTGGAACC
GCACTGGTCCTCCCCTTTGCTTATAAAAGAGAGAGAATTTGATTGCTGTGGTTGTAATGT
CTCAAACTTTTTTTGAGACAAGGCCTGGCTCTGTCGCCCAGACTGGAGCGCAGTGGTGCA
ATCTTTGCTCCCTGCANCCTCCATTCTCCTGGGCTCAAG
Sequence 4255
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGATCTTGGCTCACTGCAACCTCT
CCCTCCCGGGTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCG
CGTGCCACTGCGTCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCNTGTTG
GCCAGGCTGATTCTTCAAACTCCTGACCTCATGTGGTGGCACACCANCTTGGCTCTCCCA
AAGATGNATGGNCATTNCAGGNGANGAAACCACCTGGGCNTCAGCCTACNAGCAATTTNT

Table 1

TTAAAAACTGACACCTATTTANCTGGANAAAAATTNCTCCTGTTTAAAAAATCCCTAAAT
TACTNATTTTTA
Sequence 4256
AGGCCGAGGTACCCCCGAATCTAAAATAAAAGCAGAAATTATATGAAAAAACTGGGGTGG
GAGTTGGAAGGAACNTTTANATATGTAATAANTTTGTTTGAAAACTGNTAATTTTCTCAT
GCT
Sequence 4257
GGCGAATNGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGCACAATTATTACACTATGAT
TTGTTTGATGGATAGTTCATGTCTGNTACTTCCTGTNTCACAGATATAGCTTCATTAATT
ACCTCTTGATCATCTCCATCAGTCCCAAATCCAGCTCCTCGCNGCNNTNGTCTGGAACAT
CAGGCTCATCCCCNGCGTACAGAGTGTAAACACGCATTCTTTCTGAGGCTCCGGCGCTGA
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GATCTAAAGGCAGNTGATTTGATTTCACAGGGGAGGCCTCTTAATCTCTGTTGATTTACC
AATGGNTCCCTTCNAAACNTCCCAACCCAAAAA
Sequence 4258
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AATTNTGGGGGGNAGNCCCTTCCCCCAACCCCCGGCCCGGGNTTGGGGGCCCGGGGGCCC
CCCGNAAGGGGGNTTAACCCGNTTAAAANCCANGNGGGAACCAATTTCAANAATTAANAA
AAATTAAATTTTNANGGNTTTTTGTATAATNGNGGAAAANGNAAATTTTANANAATTCCC
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AAAATTTTTTCCAATTTCNTTNGGGGAAAAAAAATAANGGTTGGCCCCCTTTTTTGGCCC
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AAAAAAAAANCCAANGNGGGNAAAAAAANGGAAAAACCCCCCCCCAATTTANAGGNAAAAA
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GGAAAGGGGGGGGGGAAATTTGGGNCCCAAAGGCCCCCCCAACCCCCGGGGGCCCCCCCC
CAAAGGGGGNNAAAAATTTGGGCCCCCCAAAGNTCCAANGGGCCCCCAACCCCCCCCAA
Sequence 4259
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CCTTTGGNGGNGGGGGGAAAGGGGGGAAAGGGAAATTAAAAACCCCCCAACCCGGTGGGG
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CCCCTTTGGNCTTTNGGGCCACCTTAAAAAAAAAACCTTTGGNTTNGGNCCCGGGTTTTT
TCCCAATTTTAAAAAACCCCCCAAAAAAATTTCCAAATTTTTTTTTTCCAAATTTAAATT
TTTTTTCCCTTAAAAAACCCCCCCCTTTCCAAAAAAA
Sequence 4260
AGGGGGCCCGNAAATTGGGGNAGNCTACCCACCCGGCCGGGGNTGGGGCCCGGGACNCNG
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TGNAATNTGGGGGTNTTTCCAATTAACCTNTNGNAAAGGNAACCGGGGGANTTAATTAAA
TAGGGGGAAAAGGNAAAATNAATNTTTTCCCCTNTTTTAATTGGGTTGGTTNTNTCCNTN
CNCCAAGGAAAAATTTGGGGGNTGGGCCCCTTGGGTTTNTTCCTTCCTTCTTGGNNGGGG
NTCNTTCAAAAATTNGNCCCCTTGGGGGGAAACCTTTGGGGGAAGGGGGNTTTTGGGAAA
TTAAAGGGGTTTTTTNAAAAGGGTTGGGTTNGGTTTTTNCNTTTTAAACCCCCGGNCCCC

Table 1

TTNCCCTTTTTTTTTTTTTCCCCTTTTTTTAAAATTCCCTTTTAAATTTTTTTTTTTNGGA
ATTGGGAAAANCCAACCCAATTTNATTTANTTTAGGGNGGNAAGGGAAAAACCNAATTNC
CTTAATTTCCCCCTTAATTTGGGAAAAAATTAAAAAGGGNAAAAACCCCCTTGGGGGGTT
NCAAATTGGGCCTTTTTTTTAAACCTTTCCCCTTGGGTTAAATTNNTGGGTTANTAAAAN
TATTNTNNTTGGGGTTTTNCCAATTTTTTTTCCCCCCAAAANTTTTGGGGAAATTTTTCC
CTTTCCTTTAACCCTTTTTTTTTTNCCCCCCCTTTTTTTTTTTTTTNGGNTTAAATTTNTN
AAATTNGGTTGGGGNAAACCTTAAAAAANTTTTTAAAGGTTTTNGGGGGGCCNAATTTAA
TTTTTTGGGTTTTTAAAAAAAAAAAAGGGATNCCNTTTCTTTCCAAAAAAAA
Sequence 4261
CCGTTAAATTACCGACTTCCACCTTATTTAAGGGGGGGCCGGAAAATTTTTGGGGGAAGG
CCCTTCCCCCAACCCCCGGCCGGGGGTTGGGGGCCCGGGGCCCCCCGGAAGGGGGTTAAN
CCTTATNTNTNTNTNTNTNTNTNTNTNTNTNTNTNTNTCTNTNTNTNTNTNTNTNGGGNG
AAAATTGGTTAAAAAAATTNTGGGGTNTNTNTTTTAAAATTNANTNAATTTTNTTAAAAG
ANAGNGCCAACCCANCCAAGANAAAGGGTTTCTTTTGGGAATTTTTTNATTAANANAAAA
AANANANTTAAAANAATTATTTNNNTTAAAACCCANTTGGGACCCAAAAAATTTTTTAAC
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AACCCTTTCTTTTTTTAAAANAAATGGGAAATCTCCAAGGNTNGGGNAAAAAACNCCCAT
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NTTGGNAAAACCCCCTTTTTTTCCAACCCCCAAGGGCCTCCAAGGGCCNCCTTAATTTAN
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AAATTGGGAAATTCCCC
Sequence 4262
AATTACGACTTCACTTATNAGCGGGNCCGNAAATTTGGGGNAGNCCTTCTCACNCGGNCC
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NCCTTCCCCTTTCCTTAACCAAAAAAAATTTCNCCAAAAANTTGGTTTTANGNGGGCCCC
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CAAANCTTTTTGGGGNAAAAATNTTNCNTTTTTTCTTTGGGGGGGGGTTGGGGGCCCCCA
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AAAAAAAAAAGGGAAGGGGGGCCCCCAAAAACCTTTAAAAANGTTTTTTTGGNANGGGNA
AAATTTAATAAAAAAAATTTTTT
Sequence 4263
CGCGCGTTAATTAACCGGAACCTTCCACTTTATTAGGGGGNCCGGAAAATNTGGGGGNAG
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CAAAANAGGGGGGGTNCCANANCCAATTGNAATTAACCANANAATNGGGAATTCCAATTC
NCCATTAGGGNAAAATTCCANAATTGGTNTNTNCCTTAAANAATTAACCANAAAAGGGNA
ACCANANGGNAAAGNCCTTTTAAGGNAATTTTTTAATTCCTTCCAACCTTGGTNTTCCCA
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ACCCTNGGGGNAAAAAACCTTGGGGGGNAAAAGGNAAATTTTGGGAAGGCCNAAAGGNAA
CCNTTGGGCTTTGGTNAATTAANGGAAAANTTCCCAAAATTNCCCCCNAAANGGTTCCAA
TTTNCCTTGGGCCCCCCCAAAANGGGGGGGTTAAGGGAAATTTTNCCAAGGGTTTTTTTT
TTTTCCTTTCCTTTAAAGGCCCGGGTTTTTTTGGGGAATTTAAAAAAGGGTTTCCAAAGG
GGGGCCTTTGGGAATTTTCCTTTTTNAAAAAAAAGGNGGTTTAAAGGGNAAAAAAGGGTT
TTTNGGGGGGAAAAAAAAATTTTTTTTTTTTTTTTTCCAAAAAGGGGGGGCCCAAAGGG

Table 1

TTGGGGGGGTTTTTTCCNTTTCCCAAAAAAAAAGGNCCCAAATTTAAAGGGTTTTTTTCC
CCCCCCCAAAAAAAAAAAACCAAAAGGGGCCCAAAGGGTTTTAAATTTTTTGGGGGGGCC
CCCCCTTTNCCAAACCCCCNTTTAANTTAAAAAAAAAANCCCTTTTTGGGGTTTTTAAAG
GGGAAAAAAAAAATTTAAAC

Sequence 4264

GCCGCCGTTAAAATTAACCCGGAACCTTTCCAACNTTAATTAAGGGNGGNGGCCCGGAAA
AATTTTGGGGGNAAAGGACCCTTNCCCCACCCCCCGNCCGGGNTNGGGGNCCGGGGGACC
NCCGNCCCCNATTNCNTTTGGGGGNGGNTTCCAAATTTCCGGAAATNGGAAAGGACCNCC
TTCCGNCCCCCCCTTGNTTGNCCNCCTTGGGGNTNCNCCCCGNCCTTTTGGTTGGNAAGG
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TGGGTTNGGTNTNCCCCTTTTAAAAAAGGGGGGAATTGGGGGGGGCCCAAGGNGGNAAAA
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TTNCCAAAGNGGGGAAAATTTTTCCTTTGGGGGCCCCCCCCTTGGCCTTTGNCNNCTTTA
AAAAAAACCTTGGGTTTGGGCCCGGGTTTTCCCATTTAAAACCCCCAAAAAAANTTCCAA
TTTTTTTCCAATTT

Sequence 4265

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AAATAGTANGTAAATAATGACNGAAAAAAATTNCNTNANTCNNCTNTTTTANCCANACTT
TTTTGTTTTATTTTTAACATTTTTCANTATNTGANATTTNCNANATTTGTTTNATTTTCT
GTTACCCTNTAACTGCAATACAAGCTCTTGTGGACTGGAACCACACCTGTCATATTCATG
CTGAATCTCACCTGTCATATTCACTGCC

Sequence 4266

CGCGTTAAAATTANCCGGACCCTNCAACTTTATTAGGGGGNCCGGAAAATTTNGGGANAG
NCCTNCCCCACNCCGNCCGGGATGGGGNCCGGGNCNCGGNAAGNGGTTACCCAAGNAAAA
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AAAGGGGGGCCAAANAAGNAAAAAAATGGGTNTNTNAAGNCCTTCCTTCCTTTTTTAAAA
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NTTTTTNGGGNTNCCCTTTTTTTCCCTTTAAAAAAAAAAATTTTTCCCNTTTTTTCCCCC
CNTTTAAAAAANTTTTTTCCCNAAATTTAAATTTTNAAAGGGNCCCCTTTTGGGNCCCTT
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AAANGGGNTTTTTTTTTAAAAAAAAAAAAAACCCCCCCCCCNAAATTTTTTTTTAAAANC
CCCCNAAAGGGGGGNAAAANTTTNAAAATTTTTGGGGGAAAAAAAAAAAAAAAAANTTTT
TAAAAAAAAAANAAAAAGGGGGGGAAAAAACCCCCCCCCCTTTTNAAAANTTTTTTTTTT
GGGGGNAAAAANTTTTTTTTTTTTTTGGGGGGGAAAAANCCCCCTTTTTTTTTTNAAAAA
ACCCCCTTTTTTTTTT

Sequence 4267

ATTACGACTTCACTTTATTNAAGGGGGNCCGNAAATTTTGGGGGAAGNCCTNCCCACCCC
GNCCGGGNTGGGGNCCGGGNCNCCGNCNCCCCGGGGGNCCAGGGGGTTAACCCAGGGAAT
NCTTGGGGGGGAAAACCTNAAAAATTTAATTTNAAAAAAAAAATGGNAAGNTTGNTGGGG
GCCTGGGGNATTAATTANTTGGGGAAGAAAAAATNGGTTTTGGGNGGCCCNCCAAGAAAA
AGGTGGNAAAACCCCGGTTAAGNAAGGNATTCAAGNAATTAATTTTACCAAAACCAGGNC
CTTTTTTTGGTTTTTTTTGGAAGGGGGGTTTTAAGGNAAAAAANTTANTTGGAAAAAAAT
TGGGAATTTTTTNGGGNTTTTNNTTNGNAAAACCCGNCCCANCCAAGTTTTTTTAAGGGG
CCCAAGGCCAAAGGGGGGCCCCCAAGGNAAAATTCCCCNTGGGAACCCCCCCTTCCTTTG
GCCCCCCCCCGGTTGGGGGGTTTTAATTACTTTCCCTTNCCCCCCCCCAAAGNCCTTTTG

Table 1

GGGGCCTTGGGCCCCCTTTCCAATTGGGTTNCCAAATTTCCAAACCAAANGGTTAAATTT
TTTCCCCNAATTTTTTTTTGGGNTTNTNTTGGGTTATTGGNCCNAATTGGGTTTNCCTTT
TTNGGTTNGGGAAAAAGGGGCCCCCAANTTCCCAANAAAGGGNAAATTTTTTTTTTTCCT
TTTTCCCGGGTTTNCCTTTGGGTTTTTTTTTTNCCCCCCTTTCCNTTCCCAAATTNTTGG
GGGGTTTAAAAAATTGGGNCCTTTCCAACCCTTTTTTTTGGGTTGGGAAACCCTTTTTCN
NAATTTTTTTTCCAAAAANAAATNCCNTTGGNTTAANAATTTCCCCCCCGGGTTTTTCCA
AAAAAANTTAAAAAAAAATTTNATTTCCCCCCAACCCCAAAACCCAAGGGGGNANTTTCC
CTTTGGGTTTTTT

Sequence 4268

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTCATTATTTACCGTTTATAATTTGGAGGT
AAGACCATTAGACCCAAAGAACTTTTGTCTTGGTGTGTTCTTGTTTAAATATGGAATTTA
TTTTACAAAATAGTTTATGTTTTGTATACATGTCTANTCTNAANGGGCCCAAATTTGAAA
TTTTAATGAGTCTACANAAATGTTCTAAGTGGACTGGGTGGTGCAGCAGCTTNCTNCCAT
CGTGATATTNACAAGAATGCCNGGTCTCTCTTGACNGACAGGTCAATGGNTGTTCNATGT
GCANCTGGCCAAAGTGTCTANTANAACTACANAATGAACCTGTATTTNATGTGNACTGCT
CAACTAGAAAATNTAGCCACTCTCTGCTTTAAGGCTTTGGAAAA

Sequence 4269

TACGACTNCACNTTATTAGGGGGNCCGNAAATTTGGGGGAAGNCCTTCCCCACNCCGNCG
GGGNTGGGGACCGGGACNCCGNAGGGTTNANCCAAGNTTAAAAAAAAATTTAGGGNAAAA
TTAATTNAAAAAAAAAAAAAATNGGCCTTACCCAACCAATNGTTGGGTTAGGNGNGGCCA
CGCTTTTTTCAATTTTATTAAANTTTTNGGTNCNCAATACNTTTTTTGNACCTNGGAAAA
ACCAATTTTANTNTTAATNTTCCAAGNCCGNTTATTGGGAACCTTAATTAATTAATTAAC
CAANANGGAAAAAAAACCATTAACCAACCNAACCAACCNNANCCAACCCAACCCAACCAA
ACCAACCCATTTTTNACCCACCCCANCCCATTTNTCTTTNGGGGGNTNTTATANNTANTT
TTTTATTTTNTTTNTGGGAAAAAGGAAAAATTTNGGGGGGNAAAAGAGTTTTTTTTTTTT
NCAAAAACCCTTTCNCNTTTTTGGGGGNTAAATGGGGGCCCCCCCCCCCCAAAAAAANGNN
NCCNTTTGGGGGGGNNAAAAGGATTTTTTGGGCCCCAAAAAAAATTTNNGGNGGGGNCCC
NGGGTCCCCNGGAAAAAATTTCCCCNTTTTCCNGGGGGGGGGNCTNTTTCCNAAAACCCT
TTTNGGGGCCCAAAAAAAACCCNCCCCNTTTCCCCCTTTTGGGGGNCCCCCCCCTTTNCC
CCCCCNCCCAAAAGGGGGGGGGTTTTTTTTTTCCCNAAAAANAANGGGGNCCCCGGGGNA
AAAAATTTNTTTCCCCCCTTTTCCCCTTTTTTTTNGGGGGNCCCCCCCCCTTTTTTCCCT
AAAAAGGGGACCCCCCCCCCTTTTTNCCCCCCCAAAAAAAAGGGTGTTTTNNAAANGGGN
TCCCCCTTTTTNGGGGGGGGGGGGGGCNAAAAATTTTTTTTTNAAAACCCCCCAAAAAGG
GGGGGGGGGGNCCCCAAAAA

Sequence 4270

CGCCCGTTTAAAATTAACCCGGNAACCTTTCCAAACTTTAATTTAAAGGGGGGGGNCCGG
AAANAATTTTGGGGGNAAGGACCCTTCCCCAAACNCCGGNCGGGGGGTTTGGGNGGACCG
GGGGTCCACCCGNCCCACCCCGGNGGGGGNCCCANGGGGGTTTAANCCTTTCCCCCANAA
AAGGNAAATTTTTCCNANGGGGGTTTNTTTTAAACCTTNCCAACCGGTTTNCCAANTTCC
NCCAAGNCCAAAGANAAGNNAAAATTGGNGNAAAAANANGGTTNCCANAAAAATTTTNTT
CCCCTTNGCAAAAATNTTGGGCCTTAAATCGATTGGGTACATTGGGGGGTTTTTTTNCCA
ATTCNCCAATTCCCCGGAAACCAATTTTGGGAAAAAGGNTNTNGGAAACCTTTTAACCTT
TGGAAAAAGNAAAAATTTGGGGGTAAGTAAGGAAGGNAAAAATTTGNGAAAAAAAAAAAG
GNNTTGGGGGAAAGGCCCATTTTTCCAAAGNAAACCCTTTGGGNTNCCTTTTTTTTCCAA
GGCCCAAAAAGGGGGGAACCCTTGGGGTTCCCTTTTTTTCCCTTAAATTCCCTTCCCTTT
TNGGGTTNAACCCTTNNTNTCANNTCTTNTNNTNTTTTCTNTTANTATANTNTANTNTTN
TTATTCTTCATNTTCTTNGTGGGGGGGGGGCCCCNCCCGGNAAAAAGAAAAAAAACCCTT
GGGTNNCCCCTTTCCGGGCGGNGGATTGGGGGAAAGGGCCCCAANNTTGGGGGGGNNAAC
CCCCTTTTTTTNAATTTTTCCCGGTTNTTAAAAAGGNNAACCCAATTTCAAGGGGGGGCC
CTTNCNCCAANTNANAAATTAATTTGGGAAAAAACCCTTTTTTTTTCAANGTCCCNAAGAA
AAAAAGNCCCGNCCNTTTTTGGNCCCCCCGGGGGGNAAAGNCCCANAAAAAAGGNGGGGG
GAACCCAANGGAA

Sequence 4271

GGCCGCCGCCGTTTNAATTAANCCGGAACCTTTCCAAACTTTAATTTAAGGGGGGGGGCC
CGNAAAAATTNTTGGGGGGNAAAGGNCCNTTNCCCAACCCCCCGGCCGGGTGGTTTGGGN
GGCCCGGGNGGCCCCCCGGTAAGGTGGTTTAACCCAANCCAAATTNTTTTTNTTAAAAAA
AAATAANAATTAANCCTTTAAAAAAGGTTTAANTTNCCCCCCTTNCCNCCAATTTNTTAA

Table 1

NAAAAAATTAAAAANGGNCCCAANTTTTTTTTTTTTCTTTGGGGGGNCNCCCAACCTCCN
GGTTNGNAAAGGGGGGGAAACCNCCAATTGGGGGGGGGNAAAAAAACGGTTTAANTTAAA
CCTTNGGTTTGGGTTTAANGNAAACCAAAACCCAANTTGGTAAAAACCAACCAAATTTAA
TTNGGGAAAAAANAACCAAAAATTNTTAAAAAANGGNGGGGGNCNAAGGTTTGGGCCCAA
ANAAGGNCCCAAGGNAAAAANAAAAACCCAAAATTTATAAAAANGGGGTNGGGAAATTNC
NAAAATTTTTTCCAAAAACCCTTTGGCCCAGTGAAAAATTTTCCAACCTTTGGCCCCCTT
AAAAAGGGGNTTTTTTTTGGGGGCCAAAATTTAANAAAAAAAAAATTAAGGGGGTTTAAA
AAGGTTTGGTTTTTTNGGGAAAACCCTTAAATTAATTTTTTTTTCCCTTTTTTTTTGGGA
AATTGGCCCTTTTTTNTTGGGGGAAAGATNGGGGGTTGNTTTTTTTTTTTAATTNTNTTCC
AAATTTTNTCCTTNTTAAAANTNANTTANTTTTTTTTTTTTCCCANACGGGAAGGAAAAA
AATTTTAATTCNTTTAAAATTCCCTAAGGGTTTTTTAAATTTCCTTAAAAANAANTCCTT
TTTTTTTGGGAAGGGAACCAAATTTTTTCCCCTTTAATTTNCCCCCGGCCCCTTNTTTCN
TTACCCCCCTTTTTTTTT
Sequence 4272
GCGTTAAATTAACCCGGAACTTTCCACCTTTATTAAGGGGGNCCGGAAAATTTGGGGNAA
GNCCNTNCCCAACNCCGNCGGNGATGGGGNCCGNGACNCCGTCNCCCCGGGGGNCCAGGG
GNTNACCCGNCCGGGGGGGAAAGGGGGCCAATTTTGNAGGTGGGCCANGTCNCCAAGNCC
GNCCAGGNGGGGGGNCCTTTACATTGNCNTGGNAGGNGGGGGGGNCNAGGNGACCGGGGN
AGGNCNTTTTGGAAGNGGAAAAAAACCCCGGCCAAGNAATTAAANGNTNTNTTTTTTTNC
TTCTTTTNGNAAAAAAGGAATTAGGAAGGNAATTTTAAAATTAACCAAAACCTAACCTTT
TAAAAAAAAAAAANTAATTAANGNTTCCAAAATTNAGGGGGTTTAACCNTTAAAAAGAAA
TTANTTTTGGCTTTTTAANGCCCGGGTTTAAAAAGGTTTTTTTTTAAAACCGGGTTAAAA
TTTTTTTTNAAATTAAAGGCCTTTTNAAAAGGGAATTTTTTTAAAAAGGAAGGAAAAAAA
AATTAATTTGNAAAAANGNAACCTTTTTAAAGNAAAANGNAAAGNTTAANGNCCNAATTG
GNANGGGGNAAAAGGGGGAAAAAAAAAGGGAATTAAAANAAAAGGGGGGTTTTTTTNCTT
TAAAAAAAAANCCAATTTGGNAACCCGGGGGGAAAGGGGGTTTTTGGGNAAGGGNAAATT
GGNAAAAAGGCCCTTTTTCCCTTTTTTCAATTTGGGGGAAAGGTTTAAAAAAAAAAAAAA
AAATTTGGGTTTAATTTTTTTNAAAAAAAAAAGGNAAAGNAAAAANTTTTGGGNANGGTA
AAGGNAAAAAAAAGGGGGGAACCCNTTTAACCCAANGGAAAGGCCCCCCCCCCGGGAAAA
ATTTTTTAAAAATTTAANCCCCCAAAAATTTAANGNAAAAAAGGGGGGGC
Sequence 4273
AAAATTTGGGGGAAAGGCCTTTNCTCCANCCCCCGGNCGGGTGNTTGGGTGTCCGGGGGN
NCTNCGGTCANCNCCGGGGNGNCCCAAGGNGGGTTTAANCCAAGGACCAAATTNTTAATA
TTAAGGGNCCTTTGGGGGGNGGTGGTCCTTATNTTCCAAAACNTTGGGCAANAAANAACC
NCCCCCCCAAGNGGGGGGTNACGTACATTGTATTCCATNAATTNTGGGTNCCNCCCACAA
NTTNAATTGGGGGNTNTANGGGGNAAGGNTTNCAANCCAANAAGNTAAGTTTNGTGGGGT
AANGTTAAGTAATTGGNGNCNCNAAAGGACCTTTCNTTACTTTGTCAAANTATGNGGAAA
NTTCCCNTNGAGNGCNAANANCNATNNTCACATTNGTANAANCNCCCCATATATTTNAGG
NGTTTANCNTTTNTCNCACAATTTCATATAAAGNGGGGGAAAANAAAAAAAAAAANAATT
CCNAAANATTNATTTTTTAACNNCCCCCCCCAACNGNTAGGCCCTTTTAATTAAAANTNA
TTTNTAACCCAGGNTAGGGAAACCTTTCTCCANCCCCAATTTTCNCTTGNGTCACCCCTT
GGGCNANAAAAAAAATTAANTTTCCTCNTTGGNGGGGGAATTTTTTTNGGAAACCNTTAA
AAATTTAAACCCTTANAGAAAANGTCCTTTGGATCCTTTTTTTTACCTT
Sequence 4274
NCAACCCCCCGGCCCGGNGGTTTGGGGGGCCCGGGGGCCCCCCGGNAAGGNGCTNAACCC
AACAAAAANAAAAGGGNTNNATTTTAANTTGGGCCCCCCAANGCNAAATTAAAAAATAAC
CCTTTTTGGGCCCCANAAGGGTAAATTTTTGGGGGTAAATTTCCCGCCAAGAGGCCAAAC
CTTTNAATTTTTTTTTNTTGGCTTTANCACGGNGGGNCCTTTTTTTTTGGTNTCNTCTTA
ATAAAAANGGNCCCTTNTTTTTGGNCGGTGGCCCTTTGTCAANAATAAATTGGGTAAAAA
NATAAATTGGNNAACCCTTTAANCCNANNAAGGGTTTTTTTGGGGGGGGATTCTNTANAA
ACCCCCCACTATAAAGNGNTTAAATTTNTTTTTTTCTCTAAGGNAACCCNTTGNGGGGCC
AAAANGGGTTTTTTNGNCCAAANTNAAATTTTTTGGNAATCTCNNNGAAAATCCAATGGA
AAAAAGTTNNTTTGNACCCCCTTTGTACCCCCACCTTTTAAGGNCCANGNAAGTTTTTGG
NGGNTTTTAAAAAAAAGGNAAGGTTNCCAAAATCCTACCTTNGGGGCCTTTCCAACNAAN
TAGGCCCANNTTCCCGCCTTNGNGNAAAANGAAAAATAAGGTTNNTNCAANGGNTTTGGN
GGGTTGGGCCTTCCTAAACCTTTCTTTCCCAGGNTTCCNAATTTNCTAAGANAAATTTTT
GGCAATAAAANAGTANCCNACANGNANAACTTTATTATNATAATTTNANTTTCCCGGNAN

Table 1

NGANCCTTTGGTNAAAAAAGGGCCNCCCTTNGGGCCCAAATTTTTTAAAAATAAAAAANT
GGGGNCNNAAAAAAAAAAANAAAAACCCTTTAATTTTTTCCCGGNAAAAAATTNGGNTTG
GGGGGGNCCNTTTT

Sequence 4275

TAAATACGACTTCACTTTATTAGGGGGNCCGGAAAATTGGGGNAGNCCTNCCCACNCGNC
GGGGNTGGGGNCCGGGACNCCGNAGGGNTNACCTNGGCNACCCCAACTTNCTTGGGGAAA
AAAAAAAAAATGGNCCCTTTTNCAAGGGGGTTNTNCCCNTTTNCCCNATTCCCCCCCNAA
AGGGGGCCAGGNCNAAGNCCAAAAAATNCNCCTNTNCGGTGGGTNCCGNTNCCTNCNCCT
TACNTGGGGGCNCCAAAGGGGGCCAGGGCCCAAAAAAGNAATTTTTTGGGAAAAAAGGTT
CTTTTTTGGGGGCCTTCCGGTAAGAAATTGGGGCCCCAAGGAAATCCCCCGGCCTTTAAG
GGGGAAACCTTTTTTTNCCCTTGNTTTTTGGAAGGGCCTTTCCCCAACCCCTTGGGGGNC
AACCCTTTTTAAAACCTTNAAAAAAATTTTCCCCCCNAAAAATNGGAAAGGCCNGCCCTT
GGGGGAATTNAACCTTTTNCCAAAGTTNCCCCAAATTGGGTTTTTCCCCCNTTGGGGGCC
TTTANGGCCCAAGGGCCCTTGGGTTTAAAAATTTTTTCCGGGAAATTTTAAAAATTTCCC
CCAAAGGGNAAGGGGGGGGGGTTCCCCCCTTTCCAAAATTGGGGTTTNTTCCCTTTTTTT
TTTTTTTCCTTTTTTNCCAAAGGGGGGTTAAATTTTCCGGGGGGGGGCCCTTTTTTTTGG
GGGGGTTTGGGCCCAAATTTTTTTTTCCAAAACCCAAAAAAAAAGGGGGGGCCCTTTCCG
GGNAAAAATTTCCAAAACCCGGGGGGTTTTTTTCCNTTTGGGAAACCCCCCGGGCCCCCC
AAAAAACCCCCTTTGGTTTTAAAGGCCCAAAGGGGCCCCGGGAAAATTTTTNTTTTTTTT
TCCCCCNTTTTTCCCCCCCCCGGGGGGGGAAAAAAGGNATTGGGCCCCTTTTGGGGGGGC
CCCGGGGTTTGGGCCCTTTTTTTC

Sequence 4276

CGGAACCTTTCCNAACCTTTTAANTTNAAAGGGGGGGGGGCCCCGGGGAAAAAAAATTT
TTGGGGGGGGNAAAAGGNCCCCTTTACCCCCCAAACCCCCCCGGGACCCGGGGGGGATTT
GGGGGGGGCCCCGGGGGGGNACCCTCCCGGGGGGNCGGCCCCCANAATTTNNTTNTCCAA
CGNTTGGCCNNNCCCCCAAAGNCCGGGGGGGNNAATTTNCCCTTAAAAATTTGGGATTTG
GGTNCCCNTTTNTNNCCCCTCCTTTCTTTNTCTTTGGGN

Sequence 4277

TANTTACCGACTTCACCTTTATTNAAGGGGGGGCCCGNAAAATTNTGGGGNAAAGTCCTN
CCCCAACNCCGACGGGGNTTGGGNCCGGGNCNCCGTAAGGGNTNANCCANCNTTGGTNGN
CCCAAGTTAAATTNANAAANCCANAATACCTCTTTCNAAGTTGGGTTAAAATTNAGGTCC
TTCCAAGNCTCCANAGGNTTNCNGGGNTTTTATANCCANATAATTAATAGGNGGGAAAAA
TCNAAAACCAANCTAAAACCANATGGCCAGTCCATGTCTCCCCTTGTGTAAAAGNNANGT
GGGGGTATGGGGTGGAAAAAAAAATTCCANGGTTTAATTTTCNCNGTAAGGGTTTNGCNT
TATCCAAAAAAAANTAACCTTTTTTTCCTTNNAAAAAAATTGGGCCCCCCNNNGTTTTTT
TACCCAAANCCCNNCCCANAAAAAATTTCTNTTTGGNANGGGGCCNATTTNGCCCAAAAA
ATTTAAAAAAACCCATGGCNAANAAAAAANGTTTATTTTGGTACCAACCCAACCNAACGT
NAAAAAAANGGAAAANGGGGNGGAAAAAAAATANGGCCAANGNGGCCCAATGCCTANGGG
NAAAAAAATTTTGGGTTCCCCCTTTTNGNAANAGGGGGGCCCCCCANGTAATTNGTTTCC
AANGNAAACCTTTTAANGGTTATGNGAACCAAATNGNGAAACCAAGGCCAAAANAAAGGC
CAAGGCCCTTTAATTTTTAATTAACAAAANTTAATTTTGGTTTTTTCCANAANAGGGAAA
ACCCTTAANAANAAAGGGGGGCCTTTNGCAAAAATTTTTNCTTTAAGGGCCCAACCCTTT
CNTTGGGNGGGAAAAAAAAAAAAAAAAAAAAAGGGGGGGAACCTTTAATAAAANGGGGGA
ATAAAAAATTTTCNAAATTTGGNCCTTTTTAAATAAAATTTAACCCCCAANAAAAAAAAA
ATT

Sequence 4278

GTTAAATAACCGGAAACTTTCCAACTTTATTAAAGGGGGGCCCGGAAAATTNTGGGGNAA
GNCCTNCCCCACNCCGNCNGGGNTGGGGNCCGNGNCNCCGGNAAGNGNTNACCCAAANAN
AACCAGGTCNCAANGNGTCCANAGGGGNTTGNGNCCGNCCAACCAACCNCCTNGNTTAGG
NCNCCCCCCAAGNTNTTAACCTTCAAAGGNGGGNTTCNTTTNGNAAGNGGTTGGGNAAAG
TAAATNCTCCCCTTCNAAAGGNCCCCCCAAAAGGNAAGNGGTTCCAAANGNGGCCTTGGC
CAAGNTTGGAAGGCCCCAATTGGAAATTCCAACCGNCCCCANTTGGCCCCAATTGNGGCC
AACCTTTCCCAAGGCCCCTTGGGGGGGCCAAAANGGAAACNNNAGTTTGGAAAGGAAAAC
CCCCCCCTTTTNTTTTAAAAAAAAAATTTAAAAAAGGGTTTAAAAAAAANTTTTTTTTAA
AAAAAAATTTTNAAAAAANAAAACCCAAGGGCCAAANGGGTTTGGNGNGGGNAAAAACCN
TTTCAAATCCAANTTTTTCCAAAAAAGGTTTTTAAAANCCTTTTTNGTTTAAAAGAAAAG
GCCCNTTNANCCCCCCCAAGGNCCTTTGGCCTTTAAAAAGGNAAAAGCCCCAANGTTTGG

Table 1

635/863

GTTTGGNAAATTCCCCTTTTTTGGGGGGGTTGNGNCCCTTTCCTTTTTTAAAGGGGGGAA
AATTCCCAACCTTTTTTTNGGGGGGTTNAAATTTCCTTTGGGCCTTTTCCAAATTTTTTT
TTTTCCCCCNTTTTTTTTTTTTGGGTTCCCNTTTAAACCCCCCCCCTTTAAATTTAAAAA
AAAAAGGGCCCCAANCCNAAAAAAAAAAATTTCCCCGAAAAGGTTTTTGGGGGGGGGGGT
TTAAAAAAAAAAAAAAAANGTTTTAANTTTNGGAAAAAAAAAANCCCCCCAAGGGTCCNA
AACCNTTTGGG

Sequence 4279

TTACGACTTCACTTATAAGGGGGNCCGAAAATTTGGGGTAGNCCTACCCACNCCGNCCGG
GNTGGGGNCCGNGACNCCGNCNCAATNCTTTTNGGGGGGTNCAAATCCCGNATTNGGAAA
GNCCCTNCGGNCNCCCTTNGGTNGNCCCTTGGGGNTACCCCCGGNCNTTTNGGTNGNAGG
GGGGGAAAAGGGGGGAACCAATTTTANGNAAAAAAAATTGGNAAAATTTGGGAATTGGTG
GNTNTCCCCTTTTTAAAAAGGGGGAATTGTGGGGCNAGGNGGAAAAAAAACCAAGNAATT
CCCCTNGGTTTNGGTNGGGGAATTAATTTTTTAAATTTTTTTGGGAAAACCCGNGGGGGA
ATTTTTNACCAAAGGAATTTTTTTTNGNAAAAAAATTNGGAAAAGGTTTCCACCCAAAAAA
GGNTTGGAAAGNCNAATTTTTAACCCCAAAAATTGGGAAAGGAAANGGGGGAAAAAAAAA
NCCAANGGAAACCCGAAAAGGAAAAAAAAAATTCCTTTTTTTGGGAAATTGGGGGGCCTTT
TTTCNAACCNAAAAGGGGAAACCCAATTGGNCCCAANANCCCAAAAAAACCCAAAAAAAA
AAATTNGGGGGGAAAAATTTAAACCNTTGGGTTGGGGAAATTTGGGAAACCCAATTTGGN
AAGGGGGGGCCNAANGTCCCTCCAAAAAAGGNCCCTTGGNGTGGGGGGAAAGGGGGGNAA
AGGGAAAATTTANAAACCCCCCAAACCCGGNGGNGGGNGGNCCCAAAGNNAAAGGGGGGG
GGTTTCCCGGGGGGGGGAAAATTNTTACNTTTGGGGGGCCCCCCCTTTGGGCNTTTGGGC
CNCCNTTAAAAAAAAACCTTTGGGTTNGGGCCCGGTTTTTTCCAAATTTAAAAACCCCCA
AAAAAAAATTNCCAATTTTTTTTTCCCAATTTNAATTTTTTTTCCTTTAAAAACCCCCCC
CNTTCCAAAAAAAAAAACAA

Sequence 4280

ATTACGACTTCACTTTATTNAGGGGGCCCGNAAATNTGGGGGAAGGCCNTTCNCAACCCC
GNCGGGGNTGGGGNCCGGGNCCCCGCCCCAATNCTTTTGGGGGGNTNCAAATTCCGGGAA
TTGGAAAGNCCCCTNCGGNCCCCCTTGGTTGGNCCCTTGGGGGTACCCCCCGNCTTTTNG
NTGGNAGGGGGGGAAAAGGGGNANCCAATTTTANGTAAAAAAAAATNGNAAAAATTTGGG
AATNGNTNGNTTNCCCNTTTNAAAAAGGGGGAATTGGGGGGGCCANGGGGAAAAAAAAAC
CAAGGNAATTCCCCTNGGTNTNGGTGGGGGAAATTAATTTTTGGGTTTTTTTGGNAAAAC
CCGGGGGGAAATTTTTAACCCAAGNGAAATTTTTTTTTGAAAAAAAATTTGGGGAAAANGT
TTCCACCCAAAAAAAGGGTTTGGGAAGGCCCAATTTTTAANCCCCAAAAANTTTGNAAAG
GAAAANGGGGGAAAAAAAAAANCCCAANGGAAACCCGNAAANGGAAAAAAAAAAAAAATT
TCCNTTTTTTNGGGNAATTTGGGGGGGNCCCTTTTTTTTTCCAAACCCNAAAAANGGGGAA
AACCCCAAATTTTNGGGCCCCCAAAAAAACCCCCAAAAAANAAANCCCCAANAAAAAAAA
AAAATTTTGGGGGGGGGAAAAAAAAATTTTAAAACCCCNTTTNGGGGTTTTGGGGGAAAA
ATTTTGGGGGAAAACCCCCAAAATTTTGGGGGAAAAGGGGGGGGGGGCCCCNAAAGGNGG
CCCCCCCCCNAAAAAAAGGGGCCCCCTTTTTGGGGGGGGGGGGGGGGGNAAAAAGGGGGG
GGGGGAAAAAGGGGNAAAAATTTTTAAAAAAAACCCCNCCCCAAAACCCCCGGGGGGGGG
GGGGGGGGGGCCCCCNAAAAGGGNTAAAAAGGGGGGGGGGGGGNTTTTTCCCCAAAANG
GGGGGGGGGNAAAAAANTTT

Sequence 4281

CAACTTTATTTAGGGNGGNGGCCCGGAAAANTTTGGGGNAAAGNCCCTTCCCCAACCCCG
GCCGGGGGTTGGGGGCCCGGGGCCNCCGNCCCCATTGCTTTTNGGGGGGGTTNCAAATTC
CCGGNATTNGAAAAGGCCCCTTACGNCCCCCCCTGGTTCGTCCCCTTGCGCTNCACACCG
GCTTTTTGGTNGGAAGGGGGGGTAAAGGTGGGAACCAATTTTATNGNAAAAAAANTCGGN
AAAATTTTGGGAACTTGGTNGGTATTCCCTTGTTAAAAATATGGGTAATTGGGGGGGCCT
AGGNGTAATAAAAAANCCAAGAAAATACNCCTTGGGTTTTGGTTGGGGGGAATTAANTTT
TTTAAATATTTTGGGAAAAACCCGGGGNGGAAATTTTNANNCCCAGGNAATTTTTTTGGG
AAAAAAAATGGGGAAAAANTTTTCNTCCCTAAAAAAAGGNTNGGGAAGGGCCCATNTTTT
AACCCCNAAAATTTGGAAAAGAAAGGGGGGAAAAAAAAACCCAAGTAACCCTTTAAGGAA
AAAAAAAAATTCCTTTTTGGAAATTNGGGGGCTTTTTTCCCAACCAAAAAGGAAAATCAA
TTTNNCCCCAANNACCCCAAAANAACCCAAAAAAAAAAAATTNGNGGGAAAAAAATTAAA
ACCTTTTGGGTTGGNGAAATTTGGCNAAACCCAANTTGNNAAAAGGGGGGGNCCNAAAGN
CCCNCCCAAAAAANGTCCCCNTTTGGGGGGGGGGNGGGNNAAGGNGGGGGNAAAAGGNAA
AAATTTNAAAAAANCCCCCCCNACCCCGGGNGGGGGGGGGGGGGCCCCAAAAAAAACNAA

Table 1

AGGGGGGGGGGGGATNTTNCCCAAAAGGGGGGGGGAAAAATTTTTNTTCCCCCTTTTGGG
GGGGGGGCCCCCCCCCCCCCNCNTTTNGGGGNCCCTTTTTTGGGNCCCCCCCCCNTTTAAAA
AAAAAAAAAAAACCCNTTT

Sequence 4282

TGACTCCCGCGGTGGCGGCGCCGGCNGGTCAGAGATTGGGGTGGNACCTGGAGAACCGCT
GTGACCACACTATCATATTACAAGACACTGAATGGCTTGCCCACNCCCATTGGGGGTGGC
CCAAATTGGAATTCCAAGGTNTTAATTTTTTAATTTTGGGGGGCCCTTAANGGNCCCTTT
NCCCCCAAAAAAAAATTTGGGGGGGGGGAAACCCCAAANTTTAAANTTTTTTGGGGGGGG
CCCCTTTTTAAATTTTGGGGGTNTTGGGGGGGGCCCCCAAANCCCCCTTTTTNAAAAAAN
CCNCTTTTTTTANAANATTTGGGGGGGGGCCCCCCCCCCGGGTTTNGGGGGGGGNTTTTT
NTTAAAACCCCCCCCCTTTTTCCCCCCCNAAAAGNTAAAAAGGGTTTTGGGGGGGGNCCC
NTTTTAAANGGGGGGGNAAAAACCCCAAAAAAATTTGGGGGTTTTTTNCCCCCCCCCCCT
TTNAAANTTGGGGGTTTTTTNAAAATTTGGGNCCCCCCCTTNGGGGGGGGGNCCCCAAAC
CCAAAAAAGGGGGGGAAANCCCGGNAAAGGGTTTTAAAAATTTTTTTCCNAAAGGAAAAC
CCCCTTNGGGCCNCCCAAAAAAAAAAAACCCCCCAAGGGCCCAAAAAAAAACCCCCTTTT
TTTTTTTTTTCCAAATTTTTTTTNAACCCAAAAATTTCCCTTTTTGGGTTTTTNGGGGGG
AANCCNAACCCAAATTTTTTTTGGGGGGGTTAAATTTTTNCCNTTTAAAAAATTGGGGGG
TTTTAAATTTGGGAAACCCCCCAACCCTTTTTTAAAGGCCCCTTTTTTCCNAAAAATTTN
CCNTTTTTTTTTGGGTTAAAACCCCCTTTTCGGGGGGCCCCCCGGGCCCTTTCCCTTTAAA
GGAAAAAACCCTTAAGGGTTTGGGGGGNAATTTTCCCCCCCCCCCCGGGGGGGNCCCTTT
GGGCCAAAGGGGGNAAAATTT

Sequence 4283

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCATCACGTGCCAG
ACACGTTATCTGGAGATAGAGATGTAAACAAGACAGAGTTCCTGCCTCAAGCAACCCACC
ATCTAGTAGGCGGAAGACAGACTATAAATACATAATGCAAGATAATTTCTGATGGTGGCA
AGTGCTNCAAAAGACCATTATGACAGTTAAACAAAGCAACTGAGTAGAGGGAGAGGGAAA
AAGCAACTGGGGAGAGGAACATTTATGGCTGAGAGATCAGGAAAGGCTTCTTTGGCGAAA
AGACACTGGAGCTGAAGCCTGAAGGAAGAAGGCTGGAGTGGTGCCGGCAGGGGCTTGGGG
AGTTGCAGGGAAGGAGCTTGACAGGCAAGCCCCGTTTTTGATGGGGGGGGAAGCCTGGTT
GAAAGGATTGGCAAGAAGTCCATGCAG

Sequence 4284

CGACTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGATTTTTTAT
CAGATGGCCTGGAAAACCCAGTCTCACAAAAATATGAAATTATCAGAAGGATTATAGTGC
AATCTTATGTTGAAAGAATGAACTACCTCACTAGTAGTTCACGTGATGTCTGACAGATGT
TGAGTTTCATTGTGTTTGTGTGTTCAAATTTTTAAATATTCTGAGATACTCTTGTGAGGT
CACTCTAATGCCCTGGGTGCCTTGGCACAGTTTTAGAAATACCAGTTGAAAATATTTGCT
CAGGAATATGCAACTAGGAAGGGGCAGAATCAGAATTTAAGGCTTTCATATTCTAGCCTT
CAGTCTTGTTCTTCAACCATTTTTAGGGAACCTTTCCCATTAAGGGTTATGTTTTTCCAG
CCCAGG

Sequence 4285

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCAGCATTTTT
CCAANATTTNATTAACTCATAATTAAAATNCTTCCATGGCTATCCTGGNGTATAGTCCAT
TTCNNCAATGCCTGCNTATGNAAGAAAAAATNCCCCCAAGAAATNGGGNCTTAAATTTTA
ATAAAAAAGGGGAAAAAAAGGAGGGGGTTTTTNAAAAATTTNTGGGACCCTTCCCCNCCA
AGGGNTTTTCCCTTGGGCCNAANTTTTGGCCCTTTGGGGGGGGGGAAAAGGGGGCCCCCC
TTTCNAAAGGGGGGGAAAAAAAAANCCCTTTTTTAAACCCNANAAATTCCCCAATTTNGGG
GGNTTGGGGGGAAAAAAAAGGGGGGGNCCCAAAAAGGGGGGGGAAGNAAAAAAAAGGTTT
TTAAGGGGGGGNCCCAAACCCCCCCTTTTTNNCCTTTTTTACCCAAACCCAANGGGGGGG
NCCCCCAACGGGGGGNAAAAAAGNANAAANTTGGGGGNAAAANTTTNTNGGNNAGGGGGG
GGGGAAAAAAAAAANGCCCCCACGGGGGGGGGGGGGAAAAAAAAAAAANTTGNCCCCCCCCAA
AAAAAAATTGGNGCCCCTTTTTTNNCCCCCAAAAAAAAAAACCCCCCCAATTTTTCCAAA
GGAGAAATTTNCCTTNCCCAAANTTGGGNCCCCGAAAAACCTTTNCCAAAACNTTTTAAT
TTTTTCCCCCCANAAANGGNGNAAAAANCCNAANGGTCCCAAGGGGGGGGGGGGGGGGGG
NAAAAAAAANCCTTTGGGGNCCCCCCCCCCCCAAAATTGGGAAAATCNCCCCCCCAAAAA

Sequence 4286

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAGGATG
ACCGGAATGGAGACTTCTCAGAGAATAGAGACTGTGACAAGCTGGAAGATTTGGAGGACA

Table 1

ACAGCACACCTGAACCAAAGGAAAATGGGGAGGAAGGCTGTCATCAAAATGGTCTTGCCC
TCCCTGTAGTGGAAGAAGGGGAGGTTCTCTCACACTCTCTAGAAGCAGAGCACAGGTTAT
TGAAAGCTATGGGTTGGCAGGAATATCCTGAAAATGATGAGAATTGCCTTCCCCTCACAG
AGGATGAGCTCAAAGAGTTCCACATGAAGACAGAGCAGCTGAGAAGAAAATGGGCTTTGG
GAAAGAATGGCCTTNTTGCCAGAGCCCGCCAGTTCCAGGTCTGTTCTCCCCTTGGGAGAA
AGCCACTTTGCAAAAGC

Sequence 4287

CCGCGGTGGCGGCCGCCCGGGCAGGTACAAGTGAAGAAACAAGGAGGCACTTCCTGTAGG
AGCACTGATGTGCCTTGTCCACACTCCCCTCTGAGCTTTACTGGTAAGAGAGCTCCGACT
GAACATGCTGAGCAGTTGAGCACTTTTCCATCAGCAACAACAGCGAGGGATGGAAATGGA
AAGGAACCGAACTAAAACGCATTTCCCTTTGCAGGGCAGAGAGCTAAGCTCTTAGGAATA
GTGTTATAGAAATAAGCACCCTAACTTCAATTCCTGAAAATGTTGGTTAATGGAGAGAAT
TTTTGGAGTTTCACTTAATATTTTCCCATCGGTCGCCATAAATAAGTCTTCAGGGCGCCT
CCTAGAAAGAAGTCCCAGCCCCAAGGGCTCGATTAAGGGACCCACACT

Sequence 4288

CGAATTGTTTCTCCCCGCGGTGNCGGCCGAGGTACTATTCACGNCATTAAAAAGAATGTG
ATCCTGTCATTTTNTACATAGATGGAACTGTAAGTTACTAAGTGAAATAAGCCAGGCACA
GAAAGACAAATTTTGCATGTTCTCACTTATTTGTGAAAGCCAAAAATTAAAACAACTGAA
CCTCATGGGAGATACAGAGTAGAATGATGGTTACCACAGAGTAGAATGATGGTTACCAAA
GGCTGGGAAGGGTAATGGTGGGGAGAAGAAGTTGGAATGATTAATTGGTACCCCGAATAC
CAGGCACACAAGGNAGGCGAAANACCACCGAACACCACCCTTTGAGCCAGGCCACCCAGC
CAATGGGGCGCCNTNTTCCAGGNGCCNCTCCCCTTCTGGCCCTTCCCGCGT

Sequence 4289

ACTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACCACACCCAGCT
AATTTTTTGTATTTTAAGTAGAGATGGGGTTTCACCATGTTGGCTAGGCTGGTCTCGAAC
TACTGACCTCAGGTGATCCACCTGCCTCATCCTCCCAAAGTGCTGGGATTACAGGCTGAG
CCACCACGCCCAGCCAACTGCTGTTAATCATTTTAGAATCTAAGCTCCCACACTGATAGG
GAGAAAAGGCATAAAGGAGGAGTTAGTGTTGACATGTGTCAAATGCTGGTAAGTCAAGAC
TTTTGGTAAGAGGAACAGACCATTGGATTTAACAACATGGGAAGTTACTGGTGACTTTTG
ACTAGGAGCTGTTTTTGATGGGGATTGATGGGATGCA

Sequence 4290

ATNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTACAATAA
TCCTCAAGATACTGAAAGTAATGCCAAGTGAAAGACCAAGGGGGTGGGTGGAGGGCTAAT
GGGCTGGACGAAATAGCCACTTGATTGCTAGTTCATACAAGATGTGGCAGCAACTCCTTT
TCTGGCTGGGAGATCTTGGATGTCACATCTTAGAATCAGGTGGCAAAGCATCTGTGAAGG
GCAATGTGGCATCCCAGACAGTGGGTGGTGAGATCAGGAAGAAAAAATGGAAATCAACAG
ATGGTGGATCCTACAGCTGAGAACTGATTCTTCAATTTGACCGTGGTTGGCATAAACATT
TTAAATGGAGCTTGGTAAAGATCAGGTTTATTTTTGCCATTGGACCAAGCTCTTGGCTTC
TAAAAAGGGCCCTAAATTTTTTGTTT

Sequence 4291

CCGGGCAGGTACCCCTCCAAGCCGGACAACCCGGGCGAGGACGCACCAGCGGAGGACATG
GCCAGATACTACTCGGCGCTGCGACACTACATCAACCTCATCACCAGGCAGAGATATGGA
AAACGATCCAGCCCAGAGACAACTGGATTTTCAANACCTNTTTGGNTGTAGNAGAANAGT
CACAANTAAATAAGTGTTTCCCAGNAAACTTCNGGGCTTTTGNAAGTACCCCTGNCAAAT
GTTGNGGTGGAATGGGGAAANATGAAGTACNTTTGCNTTCTNCTGNNCCCTTTTTCACTT
ATATTTACAGGCNCCATTATTTTGCAATCCGGNGGTAAAAAAACGNAGGANATTCCCACC
CTATCACTAACCCAAATGCCATTGTCAGGCCCCACCTGGTGGCCTGGAAAATNTCNTGCC
AAATTGGTTTTTTTCCNCTTTTTGGTACAATTNCATTTGGATAATAATTAATGNNNGGNT
GGTNTTTTAAAAAATNAAAAAAGNTTAATTCCAATTTGNCCAATTATCCCAANTAAAAAN
AAAAA

Sequence 4292

CGCGGTGGCTGGCCGCCCGGGCAGGTACATAGGCCTTCCTCTGTANGAGAGGGCTTCTGA
TATCTTATTCTTTCTTATGGCGGAAGAGGGTGTTGAGAGGGGTTCCCTTG

Sequence 4293

CCGCGGTGGCGGCCGCCCGGGCAGGTACAAGAATTGCTGGAACCTGGGAGGCGGAGGTTG
CAGTGAACCAAGATTGCACCACTGCACTCCAGCCGGGGTGACAGAGTGAGACTCCGACTG
AAAATAAATAAATAAATAAATAAATAAATAAATAAATATTNTTGGANTGGTGAAGGGAAT

Table 1

GGGTNTAGAATTGGAGAGATTATCTTACTGAACACCTGTAGTCCCAGCTTTCTCTGGAAG
TGGTCGTATTTTGAGCAGGNATGTGCACAAGGCAATTTGAAATGCCCATAATTAGTTTCT
TCAAGCCTTTGAATACACTNTTAACTCACTGGCTNAANGAGGGAAAATTTTTAAGAANGG
AAGCCTACTTAAAANATCTTAAATTTGGAAAAAACTTCCAAAANGCNNTTTTAAACCTNT
AAAAAAGNTTTTTAAT

Sequence 4294

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACCGGGA
CCACCAAAGGGCCATGAACTCTTTGTCAGTCAAGTCCCAAGGTCCCATAGAGAGCAGATG
GCCACTTTAATGTCACCTCAAGCCCTTAGGCTGTTTTTAGACATCCATCTCCTTAGTGGA
TGCTTTTTATAGACCCCCATCCAAGACCTCACACATCTTGTAATTAAATTTCATCTGGTA
GTATTTTGACTTTTTTTCCAGCCTGTCAACACCTTCTGTGTTCTTACTTGTTGTATCTCA
AATATTTGATACCCTTTTCAGTGTTGTATTTAATCTAAAATTTGTTGTTTGTGTTTATGTT
TTCATGAAGTTACTGTTAAAAAATATAGGAAGAAGAGAAGGTTAAGATTTGAGCCCTTCA
GTGTATAGTTGAGCTTGTCCTGGAAGACA

Sequence 4295

CCGCGGTGGCGGCCGCCCGGGCAGGTACGATCTTGGCTCACTGCAACCTCTCCCTCCCGG
GTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCGCGTGCCACT
GTGTCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTG
ATCTCAAACTCCTGACCTCATGTGGTCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTA
CAAGGCGTGAGCCACCACNCTTAANGCCTACAAGCANTTTTTTAAAAACTGNCCCNTTAC
TANTGANAAAAATTTNTTNTNTTAAAAAAACCCNTTATTNNCCTATTTTAAAAAANAANA
AATNTTATTTTTTTTT

Sequence 4296

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTTTTTCTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAANTTANAAANNAANAATCT
TTTATNAAAAANANAATNNTNNNAATNAAAAANGGGAAAAAATTNNAAAAAANAANNAAA
GGGGCTAAANNNATGGNANGAAGGGGGNAATTTNNTTAAAAANAAAAAAAAANGGGNNAA
AAAAAAAAAAAGGN

Sequence 4297

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGTAATCTCAGT
TACTTGGGAGGCTGAGGCAGAACTGCTTGATCCCGGGAAGTGGAGGTTGCAGTGAGCCAA
GGTCGCACCACTGAACTCTAGCCTGGGCAACAGAGTGAGACTCAGTCTCAAAAAATTAAA
AATTNGAACGGACTGACAGGCCATCTTCCAATGTTCTGATCTCCCCTGACTCTGTGGGTC
CAACAGGACCATTCTGAGCAGGTNGCATTTCTGGGCCTGGACAAGTTTGACTGG

Sequence 4298

ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGTAACAGGACATCA
ATAAATATTAGTTGAATGGAAGATTAAATCAACAAAATGGGTGATGGATCTCTGCAGCAA
GTGGAAGAGTTCTTCATGGCCCCCAAGGTTATATCCATCTAGAACTTCAGCACGTAATTT
CATCTGGAAATAGTGCCTTTGCGGATATAAGTTAGGTAAAACTGAAGATGAGATCATACT
GGATTAGGATGGGATCTAAATCCAATGAAAATGTCTTCATAAAAAACAGGAAAGAACCCA
TAGAAACACAAGGAAGAAGGTCATGTGAAGATGGAGGCAGAGATTGGAGGGATGCAGCCA
CCGGCCCAGGAATGCCAGCAGCCACCCAGAAGCTGGAAGGAAATGAGGGATTCTCTCCTA
GAACCTTTAGAGAGAACATGGTCCTGTGAA

Sequence 4299

CCGCGGTGGCGGCCGAGGTACTCAGTCTTTGCTTAAAATAAATTTTACGTTTATCAAAGT
AAAATTTACCAGCTTTTTTTCCTAAAGAGGCTAGTCATATCTCATCAGTGGTTACAAAGT
ATCCTTACAATTGAACCTACATTTGTTAATCCTGTTCAGTGTGTATGAAAATCACTTGGT
GGCCGGGCATGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGCAGA
TCACAAGGTCAGGAGTTCGAGACCAGCCTGGCTAATATAGTGAAACCCCATTTCTACTAA
AAATGCAAACATTAGTCAGGCATGGTGGCAGGTGCCTGTAGTCCCAGCTACTTGGGAGGC
TGAGGCAGGAGACTCTCTTCAACCCGTGAGGCAGAGGTTTGCAGTGAGTCGAGATCATGT

Sequence 4300

AGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGTCTTTGGGTGGGGTATGTAATAANAAAA
AGCCTGCAGGCTTCTGAGGTAGGTAGTGGGTTGGAGGCAGGTGTCCTCACCCACTAAAGT
GAGGACTGCNACAGTCCGGCCTCTGTGCCCTCCTCTGNAATGGAATGGGGAGTGGCTACC
ATACAGCCTCAAGAGCATGCTGTTCACCAAGACCCTTGCNCCCTNAAAAAAATGCCTTAN

Table 1

639/863

CACCCTGGAATGNGCCATGGACACCAATATAATAAATTATAATCANCGTATGAATATCTT
TTTGTAAAACAAACAAATTAAC
Sequence 4301
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTGGNGAAAAAAAAAAAAATTTNATTTTAAAAAANNAAAAAAAATTTAA
AAGGGAAAAAAAAAAAANAAAAATTCCAAAAAAAAANNAAATTTTTTCAAANNTTATTNAN
GATNAAAAAAGGCCNNCCCNAAGTNAATNCANTTAAAAAAAAACAATTTNNAAANNAAAA
ANCNGGGGTNNNAAAANAATTTCCCAAAAANATNCCAAATTTNNAAAAAAAAAAAACTTN
Sequence 4302
AGGTACCTGACTCATCAACTCATCTGTCGCAGGTGCTCAGTCGAAATTTGTTAAATAAAT
GGAGGCGCTTAGTTAAAGTTTGCCTTTTTCTTTTGTAAGCAAAATTTNGGGGNTTTTNNN
NGGGGGNNNNNNAAAAAAAAAAA
Sequence 4303
GGCATTTCTCCCAGGGATCTCTGTGCTTCCTTTTGTGCTTCCTGTGTGTGTGGATATTTA
AAGGGGCTGGAAATGTGCAAAAACATGTCACTACTTAGACATTATATTGTCATCTTGCTG
TTTCTAGTGATGTTAATTATCTCCATTTCAGCAGATGTGTGGCCTCAGATGGTAAAGTCA
GCAGCCTTTCTTATTTCTCACCTGGAAATACATACGACCATTTGAGGAGACAAATGGCAA
GGTGTCAGCATACCCTGAACTTGAGTTGAGAGCTACACACAATATTATTGGTTTCCGAGC
ATCACAAACACCCTCTCTGTTTCTTCACTGGGCACAGAATTTTAATACTTA
Sequence 4304
CCGGGCAGGTACGTATCATGTAGACCGCAGGCAGTCTTAATTTTGTAGCTGGTCTGACAA
TCTTTTCCTTTTAATTGGAGTTTTTTCAGTCCATGCTATAGTTTGGATATGGTTTGTCTG
TCTCCATCAAATCTCATGTTGGAATTTGATCCCCAGTGTGGTGGTATTGGGAGCTGGGGC
CCAGAGGGTGGTGTCTGGGTCATGGGCATGGATGCCTCATAAACAGATTAATGTCCTCCC
TGAAGGTGAGTGAGTTCTCACTCTTGAGATAATAAATTAGCTCTAGAGGAGATGAAAGAG
TTCCTGGAAGAGTAGGTTGTTATAAAGCCAGACCATCTCTTAGGTTTCCCTC
Sequence 4305
CCGGGCAGGTACTACAGAGGACATAGCAGTATTAAGGGATAATGAAGTCACAGCTTCAGA
GCCTCCATCCTTTCTTTAGCAAGTTAGCTCTACTTGTATCTGTTCTGTTTTATATAATAT
GGTTGCATCTAACTGTTTTTAAAAAAAGTTCTGTTCTTCAAAAAAATTTTAAGCTATGAA
AATCACTGATTAAGTCAAACCCTCATTTTACAAAAGAGGCAACACAAACTCAGAGCACTT
ATGCCTCACCATAGGTCACAAAGCCAAGTAGCTCCAGGCCAGAAATGGGCTTTAGGTCTT
CCGTCTGAGACTGGCATTTGATGCCAGTGATTTCCTCCATATTTAGGANAAATGTATANA
TT
Sequence 4306
CCGGGCAGGTACCATACACAAGGACATAGCACCTTTGATTAGAAGTATGTTCAATACATT
ATTTGTGAACTACACTAAAAATAATGATTTTTTTCATTAAGCAAAATTTCTTCAGAGTAA
CCCTGCAAAAACATCCCACCCAGATGAACCTGGGGTTTGGAAACCATTTAACCAGTTCCC
CTCTTCTAATGGCAAGGTGGCTTCTCAGTANTTGGGCCAGGTTTTCTGTCTTGGGGGTTT
AAGTAAAAAGGCATCTTTTTATTTTGGGGTAAATTCCTTGCAACCATAGTGAATGGTTGG
GAAGTAGTTATTTTTCACTACTGCCCANACAAAAGGAAAATAAACTTTTTTAGTNAATGC
TTTTGGAA
Sequence 4307
AGGTACATGTTTTTCTACATCAAACAATTCTTCAACTCTCTGACAAACTGGGAGTAGATG
AAATCAATAAAATTCTGACACTAACTCCTGGAGTTAGTCCAGACCCTAAAGGTTAAGGAC
TTCATCCCAGGAGCCTACCCCACATCAGAGATCAGCCACAAATAGGGCCCCAGGCAACCC
AAACTTCTTCCCAGCTGGCTAAACAATTGTGGGAGGGGGTCCCAGGGGCCTTCTCCTAGG
TTCATAATTTCCTAGAATAACTCACAGAACTCACAAAGCACTTTACTTATAATTATTGGG
Sequence 4308
AGGTACCATTTTTATCTNATAATGCTGTAAACCATCAGTAGAAGCAGTTTAGATTTGGAC
TGCATGGTAAAATGAAAAGTANTAACCCTCCAACCACAANCTAGTCAGGGTATTAATAAT
TATATGTAGCANGANAACAAAGAANAAAATATATATTGAAAAAATGGAGAGTCCCCAACC
TGTTTNATATTTGAAGGATCTNAANTGTATTTTTATTAAGGAAATTNTTTTTTCTGAATA
CTGAACTTCCAAAATGTTAA
Sequence 4309
AGGTACTTCCCATAAGTTTACCTTATTTTTTAGGAAAACCCCATTGATTTTAAGTAGAAT
TCATGAAGTTGCTTTGTAGCTTGGCTTCAGGATTTGTTTGGTTTTGTTATATTNTTTTCT

Table 1

640/863

TTANGATAGCAGGCACATTT
Sequence 4310
TTGAGTAGCTGGGATTACAGGCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTTAGT
ANGAGATGGGGTTTCACCATGTTGGCCAGACTGATCTCAAACTCCTGACCTNATGTGGTC
CACCCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCTCAGCCTA
CAAGCAATTTTTTAAAAACTGACACCTATTACTGATAAAATTCTGNTGTTTAAAATCCTA
TTTACTATTTTAAAGATAACGTATTAGNTTTTTTTTAAAATACAAATAATTCTGTTATTG
ATAAAATTTTAAG
Sequence 4311
TCACTTTAGGGCGAAACGAGCCCCACCGCGGNGGCGGCCGAGGTTNNTTTNNGGGGTNNN
AANACCCGGCCCCCNCNACGGAAACTNGCNCTGACACCCAGGCNNNAGGGCAANGGGGCG
GGCCCAGCCNACTGAAACCCCCGCCNCCGGGGGNCGAGAANCNCCNGCCCCAGCCCCCCA
NNTNGCGGGGACAACAGGNTCCCACCACCACACCCGGGGNAAAAANNNGGANNNNNAGNA
AAGACGGGGNACACCANGNGGCCAGGCGGGNCNCGAACCCCNNACCCCGGGAACCACCCA
CCCNGGGC
Sequence 4312
ATAGTAGAGACAGGGTTTCACCGTGTTAGCCAGGATGGTCTCNATCTCCTGACCTNTTGA
TCCGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGNGAGCCACCCATCCGGCCT
AACGAGACTTATTTTTACTCAACTAGATGGCGTTCATTCATTTGCTTACTCAGCTGTGCC
AGGAATTAANTTGGGCACTGGGAATTCCAAAACCAACAAGACATTCTCTGTCATCAGGGA
ACTCACAGCCTANTTTGAGAGATAAACAAATGAACATGAAATTATANTTCAGGTAACAAA
GAATGAGTTGTTATTGGCAAGAGGGAATGTGTTAAGAGCTTGGCAGGGG
Sequence 4313
CCGCGGTGGCGGCCGAGGTACCCACCTCAGGGACACGAACTCCACACTATAGTGGGAAAG
CTTNAGGGACCCCTCCTTTTAGTGCTCAGGGCTCACCTATGCTACTGGTCCTTTTGGCAA
AAAAGGAAAATGATAGAGCCAGGGTTGCCCCTGATGTANCANCCTTACTGTGGAGGGGCC
AAAGCTGGTGTTCAGAGCTCACCCAANGAGGGAGGTGATAAGGTGTCATGCGTTCTGNTG
AACCCACTGGCTGGTATGAACATGAGGCTTGGGGTGAGGGAAACCAAGTANGGGGTTGGA
GAAGGAGCATCACCTTTGTAACACCTGGCTTNCCCATTAGCTNGCTTTTTTGCCC
Sequence 4314
ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAGATCTCTGCTTAATTCATTTGAATG
TTCTTCTGTAGTATTCATACATAATTTATGTTATCATTTTCCTGTTGAAGAATAGGTAGG
TGTTTTCCAGTTCTTCAGTATTGCAAACACCACTACATTGAACATCTTTGTATCCATGTG
CAAATATTCCCGCAACATACTGTGCTAGCTGTTCGGCCACATCACCTTTATGAAATTCTC
ACAGGAACCTGTGAAGGCTATAGGTAATTTGCCACATTCCACAGATGAGAAAAAGGCTAA
GAGAGCTTACATGTCTTGCCTGAGGTCTCACAACTCATAAATGACGGAGCCTAATTGGAA
GTAAAGATCTG
Sequence 4315
CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCTTTACCCA
ATTGCTCTTTCCTGTTTGTGTTTTTTGTTGTTGTTGTTGATGTTTGGCCACTTTACACAA
CTCACCTCCAAACACACACTGCATCATCAAGGGAGTTGGGTCAGAGCGACATTGGGACAC
TCACTCTGCTGTGACCTAATAAGNGTGATGGTGCTATACTTCAGACGCANGGAATAACTT
CCATTTTGGTTCATGCCTTCACTTCCAGCTGGTTGAATATAAACTCAATCACAACATCAT
CTTCAAACCCAAGGATATCCGTTACTCTTT
Sequence 4316
TNGGGCGAATTGGAGCTCCACTCGCGGTGGCGGCTCGAGGTACGGTGGCTCTATCTTGGC
TCACTGCGAGCTCCGCCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTGCCGAGTGGC
ATGGGACTGCAGGCGCCCGCCACCACACCCGGCTAATTTTTTTGTATTTTTAGTANAGAC
GGGGTTTTCACCCTTGTTTGGCCAGNATGNGTCTCNGATACTCCTGAACCCTTCNTTGAA
TANCAACACTGCNCTCTGTGCTCTTCCTCTAAAAGATGCTTGCGTAAATTTAACCANGNG
NCNGNTGTAGACTCAACTCCGNTGTCCCCCTGGNACCCTTAAGNAATNTGGAATTANTTT
NCTTATAAACGTCCAAAATTAAATAAATGGTTTTTAAACCGTAGNGGNTATNNGNTNNCC
CTAATTTNTTGGCCCCAATTAAT
Sequence 4317
AGGTACTTTTTTTTTTTTTTTTTTTTTGAAATTTGCTTTTATTTACACGTTTGAGTCAAT
TACATGCATGTTTTATTTTTGAGGAGTGATTAGCAAAATGCATTAAAATTTTAAAATAGC
AATTAAATNTACAAAAATATAGCTTACAAAAAAANCTGCGAAATGTTTAAAAAAATATTC

Table 1

641/863

TGCCTGCAAAAATTTTTAGGTGGTNACAAAAGGACGTNTTATNAAANACCCTGGAGGGTT
TNAGCAATTTCATAAAACCCTTTTTTTTTGGAGNGGAAGTTTACCATCAAATACCCTAGN
TGCAGNGAAAACCCCCGTAGTGGTCCAAANACTTANCAAGTACCGANAAAAAAGTNTCTC
CNCGGTTTCCNCTGGGNCTAATTGTATTGGTNCACGAAANTACCCAAGTAGGGGNCGNAT
TAGNTTTACCCCAGGCTANCCACCTTCTTANTGAAAGGACCCAGGCNTGGTCAACCCAAG
AAAGGGGGAG

Sequence 4318

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTAGCTAGGTGTTTTCTACAGTATCTTATATA
ATTGCATCTTACAGCATCTTTACATGCGAAATAGTTTATCAGTTATCTTCAATTGCATAT
TACAAAATTCTGATTAAATTTTTCTTAAATAAGAAAACTATCATTTCATATGACAAGAAA
TCCTAATTTAATGTTACTCCAAGGTTGGTTAATTCAAGTGGCTCAGTGATAACACCAAAG
ACTCAGTTTCTTGAAATTTTTTTGCTCTGCCATCCTCCATGTTTATCCTCACGCCAGTTT
CGCCTCATGGTCCCGATATGGCTACTGTAATTCTGGGAAGGAAATGCTGGACAGAACCGT
GTCTGGCCAAANAAGANGCCNGATTTTTTNTTNGTGGTCCCTTTCTAAAAGGCNAAGGGG
AAAGTTCT

Sequence 4319

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAACAAATGCAGTAG
CCAGCAAGATTACCATGCAATCATTAAGGAGAACCAAAGTAAGAGAGCCACTCAAACCAG
ATTTTGAACGCTACTAAAATTAAAGTAGTTCTTTGATGAATATGAATGAGTAGGGAAAGG
ATTCTTTGTAATAAGTGATACCTCTGTGGTAAGAGAAGGGTGGTATGTGAGTTTTAGTCT
ACAGATTATGGCAAATTCAGTGACAACAATCAAATGGTCTAAGATTGACAGTAGCACAGT
TTTACTCTGTGAAGGTAGTGTTCAGGACAAATTTCAAGAAAACTAGAAAACCATTCTTTA
CAGCTGAAATCTTTCCCTAACCATTGTTATTTCCACTTTTAAGTCCTCAAGAGATGAGAA
AAGGGAGGTAAGGCTTCCTTATACATTTCCTGCACAATGAAACATTT

Sequence 4320

CCGCGGTGGCGGCCGCCCGGGCAGGTACCCAGAAAACCAAAATGAGCTTAAACATTTTGA
AAGATGTCAACAAAGTTATGCCCTTGGAAATAAGTTTGGTTTATGTAAGAGCATTGTTCC
TTTAATGTAAAGACACAATAAGTTTGGCTCGCATTGTAAAAGTTTGAAATCTCATTTAGG
TTTTGTAATCCAGAGTAGAAGATATGCAGGAAAAGATTCTGATGCATTTGGTGGATATGG
GAGATCATGCCTCCATATCAAGCGTGACAAAACTCTTACTGGAGTTAAATACCATAGATG
TGTTAAACCCAGCAGCCCTAAATCACAGCTCAATGACCTACAAAAAATTTGTGCAGGAGG
GAAACCACATGAATGCAGTGTGTGCGGGAGAAGCCTTCTCCAGGAAAGCACA

Sequence 4321

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTA
CTCATGAATGGTTTAGCACCATCCCCTTGGTGATAAGTGAGTTCTTACTCTGAGTTCACA
CAAGATCTAGTTGTTTAAAAGAACCGTGGCACCTCCTCCCTCTGTGTCATGGGAGGAACC
CAGTTGGAGGTAGCTGAGTAATGGGGGCAGTTATCCCCATGCTGTTCCTGTGATAGTGAA
TGAAGTTCTCATGATATCTTGATGGTTTTATAAAGGGGCATTTCCCCCTTTGCTTGGCAC
TTCTCCTTCCTGCTGTCATGTAAAGAAGAATGTGTTTTGCTTCCCCTTGCATCATAATTG
TAAGTTTCCTGAGGCCTCCCCAGCCATTGCTGAACTGTGAGTCAATTAAACCTCTTTTTC
CTTTATAAAATTACCCCAAGTATTTCAGGCCAGTTCTTTAT

Sequence 4322

CACCGCGGTGGCGGCCGAGGTACAATTCAGTGGCCTAAGTAAATTCACAGTGTTGACGCA
NCCATCACTACTCTNCATCTCTAGAATCCTAAACAGAAACTCTATACCCATTTAAACAAC
TCCCCATCCCTCCTCTCCCCAAGCCCTGGGTAAAGCTTTTTGTAAACACTTATTTGTCTT
CTATATATTTGCCTATTATTAGGCACCTTTTATANTAAAAATGGGAA

Sequence 4323

GCTCCCCGCGGTGGCGGCCGNCNNGCCCGGNACTTTGCANNATGATGCACCCTTGCACAN
AAATGCTTTTCTTTANATCCCTTCANACAGAAATTGTGGTCAAAACCATTGAGATGGAAG
TCCTGCAGGTGTTTTCCAAGCTCCACTGGCTTTCTCAGGTCGAATGCAGTGCCTTGCACT
GGGGCAACTTCTCCTGTAGGAATCAGGGTTTCATCCACAGGCAAATAAGTATCCGCTTCT
ATGGTTGACTTCATGGTCATTTATATTTGGGGAAGCCTGGCCTGCCAGGTTGAAGTAANA
ATGGTTGGTCAGGTTGACTGGTGTGGCCTGACT

Sequence 4324

CACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAGTAGTGCACTCT
TGGCTCACTGTAGCCTCGACCTCCGGGGCTCAAGTGATCCTCCTGCCTTAGCCCCACAAG
TAGTGGGACTATAGGCACACAGCACCATGCCCATCTAAGTTTTTGTATTTTATGTAGAGA

Table 1

CAAGGTTTCACCATGTTGCCCAGGCTGATCTTGAGCTCCTGAGCTCAAGTGATCTGCCCA
CCTTGGACTCCCAAAATGCTGGGATTATAGGCGTAAACCACCATGCCTGGCCTTAAATCA
ACTTTAGAGTCAACATCTCTTATCACTGGAGCTTCTGGAAGAAAACTCCATCACCGTGGG
TGCTCTCTTTCCTTGATGTGTTTGTGCCCAAATAGCTTGTTCTCATCAGAATGACTTATT
TTGCTATGATATATATACT

Sequence 4325

ATCACTNCTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCATGTTGGTT
GGTAGTATTTTAAATCTGAAGCATTTTCAGAGTCTAAGGCAATTCAGACTGCACAGCTGT
CAACTCAGGAGTCCCATTAAACTGACTCTAAAAATTCCTAAAAGAAGGCATGATTTATTA
TAAGCAAATGGCTAACCTGGCTTTTTTGGTAATAGAATTTTAAATGAAAATAAAATTATA
CAAGATACACATTGTTTGGATTTTTAAAAACTCTATTAAATGTTTAAGTGGTTGTGAATA
TGAGGAATAATTAAATGTTAACCCCAGCTGATTAGTGAACATATAAGAAAATGGGGGGAA
CTGATCCCAAAAGATCTTCTCTTCTAAGGAGAACTTCACTTGAGGGGCAAACACTAGAAG
ATACAATTGTTATTGTAAAAC

Sequence 4326

TACACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGANGTACCTGNAANATG
CATGAGGTGTTTGTGAGCTGCATCANTNTTGCATCATTNGCATCTNTCGAACAATNGCCT
TTGGGATCCATNGNGANGACNTCTGTCTTTATTGGAGGAAAGATAANTCCTTGANCAACT
CCGNTTTTATTATTCTCATGTCTGACNATNCATNNGTGTTCTTTGTCCANNGACTTTTCT
GGCACCGNGNACCACCTAAATTATCATGTACTGTGTCGAATAGNCTTCAATGGGCGTTCC
CCTCCTGGGA

Sequence 4327

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTAGTGCACTCTTGGC
TCACTGTAGCCTCGACCTCCGGGGCTCAAGTGATCCTCCTGCCTTAGCCCCACAAGTAGT
GGGACTATAGGCACACAGCACCATGCCCATCTAAGTTTTTGTATTTTATGTAGAGACAAG
GTTTCACCATGTTGCCCAGGCTGATCTTGAGCTCCTGAGCTCAAGTGATCTGCCCACCTT
GGACTCCCAAAATGCTGGGATTATAGGCGTAAACCACCATGCCTGGCCTTAAATCAACTT
TAGAGTCAACATCTCTTATCACTTGGAAGCTTTNTGGGAAGAAAACTCCCATCAACGTGG
GTGGCTTCTCTTTTTCCTGANTGNTGTNTGGGGGCC

Sequence 4328

TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAAATTCATTC
AAGAAGAAATAGATACCAGCCTGAGCAACATGGCAAAATCCCATCTCTACAAAACATCAA
AAAAAAAAAAAAATTAGTCGGGCATGGTGGTGCACACCTGTAATCCCAGCTTGTCAGGAG
GCTGAAGTGGGAGGATCACCTGAGCCCAGGGAGGTCAAGGATGCAGTGAGCCATGGTCTC
ACCACTGCACTCTAGCCTGGGTGACAGGAATGAGACCCCGTCTCAAAAAAAAAAGAAGAAG
TAGATAATCTGAATAGCCCTATATCTATAGAAACTTAATAGTGCTGGGAGATATAGGTAT
TATTATCCTCATTTTACAGATGTGAAAATTGAGGGCCTCAGAGAAGTAAAAGTCTATTGC
TTCAAGGTCAT

Sequence 4329

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTGAAAGATTTTACTGTG
AATAGTTGACGAAAATTGGTTAAGTCCATTAAGACATGCTTCCTGCCCCTCACAACTCAC
CCACGCTGTTCTAGTCTCTCCGTAAGTGTCAATTCTGAAGGTCACAACTTCCATAACTTC
CATATCTTCTCAGTATTACATTTCAAGATGAATATATTGTGCTTTACTCTGGCAACATGT
CTTCCATAAGATGAGAATACACATCATAATGTAGAATCCGTGGAAACTCTGAGCTTATTT
TTCTGCAACTAGATGGTCTCATCTGGGGGGCAAAGTGAGACAGTGACAGATCATCAGGCA
TTAAGTTTCTCATATTGAAAGNCACACAACCTAGAA

Sequence 4330

AGGTACAGCCATCCTTGTCTTCAAGCACTTTGAGAACATTTTAGCCATTGATGTTTACAT
GTGGCACCCACCCATGCAAGATAGGTTTCTGTATTTATACATTAAAATACCAAAAAAAAA
AGTATGAAATGCCTTCAAAAATGTTCAAAGCTTGAGAGAAAAGCTTTTTTCATTAGTCAA
GGTGTTTTGATATGGTATTAAAATAATATCTAACAAAATGAAAAAAAAATTCTCTTTTCT
CCATGAATGCTGACACTGGGGAGAATGGCAATTTTAGGCTGTCAAGAGCATACTAAATAA
GTAAAATATCTAGGAAATGCAATCCGACTTGCCACGGGATTATGAAAAATTACTGGCTTT
CAGTCACTTTTTGGCTTNTTTTCATACTGGCCAGAAA

Sequence 4331

TATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGATCTTGGCTC
ACTGCAACCTCTCCCTCCCGGGTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTAGCTG

Table 1

643/863

GGATTACAGGCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTTAGTANAGATGGGGT
TTCACCATGTTGGCCAGGCTGATCTCAAACTCCTGACCTCATGTGGTCCACCCACCTTGG
CCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCCGCGCTCAGCCTACAAGCAATTTT
TTTAAAAAACTGGCACCTATTANTGATAAAATTCTCTGTTTAANAATCCTATTTAACTAT
TTTTTAAAAGATAAAGCTATTTANGTTTTTTTTTTTAAAAATA
Sequence 4332
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTAGAATTGTGTATGGAAGG
AGGAGTAGCAATGACTAGATTTAAACCTAGAAATACAAGCAGGAACCTGGCTGTAAAAGG
CTACACTTTATCTAAGAGACAGTGAGATATTAAGATGTAGAGTGTATCTGTTTGTAAAAG
GTTTAAACAGGTGAGAGTTTATCTCATGTAATAGGAAGTCCAGGACATTGGAAAAGGAAG
TGGCGTAAGCAGTCCAAAGCTCTAAGCAGCTCAACAATGTCGTCATCGACCCAAGCTCTT
TCTCTCTTTCTACTTCATCATCCTTAGCATGTAGCTTTTATTGTCTTTGTCATAAAATGG
CTGCTACATTGCCATTGACTCAAGTTTTCATTCCAGGCAGGAAGANGGAGAGAGAACAAA
GGGTTAA
Sequence 4333
CTATAGGGCGATTGGAGCTCCCCGCGGGGGCCGGCCGGGGNCCCCCCCCTCTAAGCCACTA
GTAATCAAGTGTTTTAAAAAGTAGTTAAAAAAAAAAAAAAGGGAAAGCTCAAATTAACAT
AATCAAAATGTTTTTAAAATAAATCTATGTAATGAGAGGTGACCAGCAAGCCTGTATCTA
TGCCAGAGTGTGGTAGAAGAGAAGAAGGCACTCTCACTGAATTTTATAAGTATACTGAAG
TCACCTAACCTCTTAGTAGACATGGCTCTTGCCAAAGAATACCACGGAAAGAGCTCTTCT
CTTCCATGACATCCTCACCATATCCTGTTCTTAGGTCACTGCCAACCAATAAAGCAAAGC
TCCCAGCAAGTTGACAAAAAGAAAGGGGGAGGTCTGGGGGAAAAGGGGAGGAGACGAAGG
GACAAGAGCNGA
Sequence 4334
CCGCGGGTGGNCGGGCCGAGGGNCCTTNATNAGGTATACCATGCTGGTATAAAGAGATTC
TTGCCTCCAAAGGGACTCAGAATATTTCAGGGAACCTGTATTAGTCCATTTTTACACTGT
TGTAAAGACACTACCCCACACTGGGTAATTTACAAAGGGAAGGTGTTTAATTAATTCACA
GTTCTGCATCGCTGGGGAGGCCTCAGGAAACTTACAGTCATGGTGGAAGGCAAGACAGAA
GCAGGCACCTTTTTTCACAAGGTGGCAGGAGAGAGAAGTGAGTGCCCNGAANAAAAAAAA
AAAAACCCACCTACTCTTAAAACCATCAGATCTCCTAAGAAATTCACTCACTATCATGAG
GATAACATGAAGTAAACTTNTTCGACACATGGCCGATTACAGGTCCCTCTGT
Sequence 4335
CCGGGCAGGTACNCNNTGCTCANANGTCCCAGNACCCGATGGNATGACCTTTGNCCTGAN
NTTGNATNGACTCCNTTTACGNGCTTCTCTTCCCCTCAGGANNCCTCTATCCCATATGGG
CCANTCCANGGATGGTGAGGGGGGCTATAGCCCGATTGGAAATGGGNNCTGATGAATATG
AANAGATGGAAGAANAGGATGAGGAGGAAGAGGAGGAAGACGAGGATGATGAT
Sequence 4336
CCGCGGTGGCGGCCGAGGTACAAAAGCCTGACGATNTGGTCTTGAGGGGNNATCCTAAGG
CTGTNAGACCGAAATTNAAACANNCCTTACCAGTNGATCTGNGTTTNTAANACANNTNTA
TTNANCAGGACCATGCTGATTATAC
Sequence 4337
CCGCGGTGGCGGCCGCCCGGGCAGGTACACTAGACCTAGAGCTCTGGGAACAAGTGGGAA
GAAATCTTAAACGACGTGCGCAAGGGCAGTAGGTCCCAGTAACATCTTAATGTTATGGTC
CTAATAGGGTTGCTTTGGCCCTGCTCTTCATAGAAGAGCCCAAAAAAGATAAGGGGAAGA
GGAACCACTACCCACTTTAATGCCTCAGCCTCCCTCAGCCTTGCCGTCACTGGCTAAAGA
TACCAAAGAGGAGACGGAGGTTTTCCTCCCCCTCCCCCCAATGAACTGGGAAGAAGACAA
GCGATATACTACAGTTATGGGACCCTGCCTTAGGCAAGCAGCATTGGAAGGGGAACTCTT
GGCCTGCCCAGTGATGCCAAGATCAACAAGGCAATTGGGTGCATGAGCCCATTTACATTG
AAA
Sequence 4338
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGNNAGCNAGNGATTTATTAAANCAAGA
CNTTGAAACCTTTACNTTNTGCAGNGAAAANCAGGGNGTNNTTGAAAANNCANGGGGAAA
CCNGGATGAAA
Sequence 4339
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCATTTAATTTT
TGCCTCTTACAGTCTGATATCCTGTTGGGCATTCTGGACAACTTGGACCCAGTCATGTTC

Table 1

644/863

TTCAAATGCCCTTCCCCAGAGCCTGCCAGCCTGGAGGAGCTCCCAGAGGTCTACCCAGAA
GGACCCAGTTCCTTACCAGCCTCCCTTTCTCTGTCAGTGGGGACGTCATCAGCCAAGCTG
GAAGCCATTAATGAACTAATTCGTTTTGACCACATATATACCAAGCCCCTAGTCTTAGAG
ATACCCTCTGAGACAGAGAGCCAAGGCTAATGGTGGGTAGTGAAAAATCGAGGGAAGCAC
CCTTNTCAGCCCCCTCAGGAGAATGGATCACCCCCTGGAANTTCATTGGTCTTCAAGTNG
AAAGGG

Sequence 4340

CGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT
TTTTTTTTTTTTTTGGTCTTCATGGTATCACATCACCAGGTCTTATATAACTTGAACCTG
TATTCATGCAACACTTTTCTTACTGGATTCCCAAACTCTTTATATCTTTCTCCACTCCAT
ATTACAAATTAATTTTCTATGACACAATTTTTTTAAATCAAAACTTCAATTTCACTCTCT
TTTACTCAGTATTTAAACCTCAAACTACAGCAACTGGTAATTTTAACACCTTTCCTANAA
AGTCCTAACAAATCTTACCTCCCACATGGGAAGGAGGGCCAACCTGTTAAACTCACTGTC
CCAAGAATCCCGCGTACCTGCCCGGGCGGCCGCTNTANAACTAGGNTGGGATCCCCCGG

Sequence 4341

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGGTACTTTTTTTTTT
TTCCTTTTATCATCTNGATGATGAACTTAATGTTTCCATTTGTATTAATGGAATACTAAG
TCCCTCTGTGATTTCTGAACCAAGCTATTCCTAGGCCTGAGTTTTATTTTGTTGACACAG
AAATAAATTAGAAGGCCAAGCGTGGTGGCATGTGCCTGTAGTCCTAGTTGCTGAGGTAAG
AGGATTGCTTGAGCCCAGGAGTTCAAGGCTGCAGCAAGCTTTGATTGCGCCACTGCACTC
CAGCCTTGGCGACAGACTAAGACGCTGTCTCAAAAAAAAAAACAAAAACCGACCAAAAATA
AAACCAATAACCAGNAAAAAAATAAACCTAAAGGGCAATGGACAGTCCCCTGG

Sequence 4342

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTCCACAACACAA
CCCCTAAGATCCTTTGTCACTATTCGACTAATCCTTATTATATTCTTATTTTTCATATAT
TCAAAAGGAATATTTGACAATGAAACGTCTAATATTTATAGAATATTCTCTGGAATCCTT
TCTATAATAATTATGCAAAACCATTATAAAATTATATATACAGGCAAGGGTAATTACTCA
AATCTAAAGTGCCATCACACATTTAAAAAGCCCTGACAATTACTATGACATTCCAGATCA
TAAGATGCTTCACAATTTAAGACATGGGTAGGGATGTGAAGAAGTGAATCCATGGAAANT
AAAAAAAATAACTTATCACCTGGATGGCTTTTTTACCCACNTTTCACTGCATTTCCATTA
AAAAT

Sequence 4343

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGCACGTAGCA
GTTCATACATATCTGATATGCTTTCACACCAGGATTCAGTAAACAACAATAAATATAATT
TCCCCTCTTCAAAACAAAAAATGGATTTATACGGAAAAAGGGTTAATTTACTTGGGGTTT
ATCAGCACACCATTTTTAATGTGCTTTGAAAGAATTAAAAACCATGAAACTGTATTCACT
GAATACCGGTCCATAGATTATATTTTTTCTTTAAACGAGGCTTAAATACATACATCATGA
CTTTCTATTAAGAATCCTTAAATCTATGGGGGATGTTGTTGGTAGTATAANGACTANTAT
TAAAAAATTTTTTCCTCCATTTAAACCAATTTTCAATTTAAAATTTAAAAAANAAAAAAA
ATCTTGGACCATTTTT

Sequence 4344

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTATTTAAATGT
TTATAAGGCAGATCTATGAGAATGATAGAAAACATGGTGTGTAATTTGATAGCAATATTT
TGGAGATTACAGAGTTTTAGTAATTACCAATTACACAGTTAAAAAGAAGATAATATATTC
CAAGCAGATACAAAATATCTAATGAAAGATCAAGGCAGGAAAATGAGTATAACTAATTGA
CAATGGAAAATCAATTTTAATGTGAATTGCGCATTATCCTTTAAAAGCTTTCAAAAGAAA
GAATTATTGCAGTCTAGTTAATTCAGAACAGTGTTAAATGGTATCAGGGATAAAAGAAAC
CTGGAAGGGGCCAGAAAAGGAATTTAATTTTTCACTTTCATTGTAACCACACCCCCAGGA
TTTTACCA

Sequence 4345

NCTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGACCTCAT
TCATTTCTACCGGTCTCTAGTAGTGCAGCTTCGGCTGGTGTCATCGGTGTCCTTCCTCCG
CTGCCGCCCCCGCAAGGCTTCGCCGTCATCGAGGCCATTTCCAGCGACTTGTCGCACGCT
TTTCTATATACTTCGTTCCCCGCCAACCGCAACCATTGACGCCATGTCGGGTTATTCGAG
TGACCGAGACC

Sequence 4346

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTT

Table 1

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTNGNNGNNGGGNNNGGNNNNNNTNNAANTGGGANGGNNAANGGGNNCATTTAAAAAAA
NGNNNNNGNNGGNANAAAAAAAAANNNTNGNAAAAAAAANNTTTNTANNNNNNAAAAAANCN
GGGNCTTTTNCCCCCCAAAAAAANNAAACCNNCCAAAAAGNCNAAATTTAAAAAAAANCC
CNGGGCCNAAAAANNGNCCCTNCCNAAAANTTTTTCCCNGGAAAANNAAAAANGGGANNC
CNTTTTNAACCCCCNCCCCCC
Sequence 4347
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTTT
TTNTTTTTTTTAGCCTTTGATCTCTTGNCTCATACTTCATTCAGAATGATTTACAGAGA
AAATAGAGGATNTCAGATGGAACTTTACTNAAACTCCTCCTGCCACATTTGCACACCTTN
CCTTCTTTTAAAATTGCTTNCCTGNTGAGATNTTTAACCNNNNTTTGNNNANAGGGNTTT
TACCCTNAGAAAAANAACNTNGANCCCCACCCTGNGNAGCCAGCNNNTAGNTAAAGCTTT
CTACNTAAATAGGNCTNTCTATATCCTTTCTNCCCANANNANGTTTTCCNAAACCCCTAN
CCTCTNTCCCNACCAAAGGGNNTTTTCTTTTCCCCCACCGCNAGGCCTTTTTTTAAT
Sequence 4348
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTCNGGCAANAACTTTTAATAAA
ANANANACGGANAGGNGANCAAANCCAGCATATAAAAANGNGTCTGAAANAANCTTTTTT
TAAAAAAAGTTTCAAAAAGGGTTTATAAAATTGNGTTACAAACATGCTANCTNTTCCACA
AAAAAGNGTCCNTTTTTTACCCGGACATGCAACTTGACTACATTTCCCAGTNTTCCTTGN
AGTTAGGGGCAGTCNTNTGACAAAGTTNTGGCCAANGGAATGGGGCCAAAAGGNNTGAGG
CCTTTTNAAAACTGGCCCCATAAGCCCCTCCCANTCANNAGCCTTAATTCTNATCCATGG
NNTNTCCGNGAAANGGGGNAA
Sequence 4349
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGTCTTCATTAAAAACA
GGTGAAGAATTTGAACAAACATTTGCAAACTAAAATACAAATGAAATACACTCAACACCA
TTAAACAAGAAAATAAAATTATGAGATATTCACTAATAATCACTACATATGCACCACAGT
GATTAAAAATTTTTTTTAAGTTAAGCCACGTGACCCAACAAGGTGCATTCACTCAAGAGA
AACGCAAATATATGTCCACTCAAAGACTTGCACATGAATGTTGAGAGCAGGTTTATACTG
AATAGCGCAATGTGAAAAAACCCCAAAATCTAGCAAAGGATGAAGGGAGAAATAAACTGT
GGTATATACATACAATAGAACACTACTCAATAATAAAAAGGATTATATTCCTGATACATG
CAATATGGGGTGAACCCGTA
Sequence 4350
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGATCATTGGCAGACTCGTGTCTT
AAGAGCCGAGCTCCCCGAAAAAGAAATTCTTAGCCCTTTTAAGGGCTTACAACTCTAAGG
GGTCTACATGAAAAAGTCATAATAGATCAAGTAAGCGTGAGAAACATGACTGGGGGCTAC
ATACATCAGCTAACAGAACAAAAAGTTTTACAGTATTTTCTCATACAGTGTCTGGAATTT
ACAGGATAAACACCAAATAGTTTTGGGTCAAGGGGTTAATAATATTTATTTATTATTTTT
AGCCACCAGGGGCCAGGGTGGGTGGGTGCCAAGGTCCGTCTTAAGCTATTTTAATCCTTA
ACTTTCTGGTTNCTTTTTCCAACTTTTTTGGCTTTTTCTTNCCCNTTTTTCTCCCNTGGN
TCCTTTATTAAAACTTAAGGGGAAAAAAAGGG
Sequence 4351
CCGCGGTGGCGGCCGCCCGGGAGGTACCANGATCATGAAGTCAAAAAGGGTGAAGTCCAG
TTTGAACCAGGCAGCCTAAGTCCAGACACATGGCATTTGGCCAGTCCTCTCCCTGCATCC
AACCTGCCCTCTCAAATCCTTGTCACTCAGGCCGATGCCCCTGCTCACTGTGCCCTTCCT
TTTGGGGGTTCCTTGTAGACCACAGCTAGACCAGTGGGTGCCACAATCACTGTGTCAAGT
ATAGAAAGGGCAGCTGAGATCACATCAAAGATTCCAGAAAGAATTGGCACAGGATCATTC
GGGATGCATCTCTCCCTTGCCCCTGTTCCTGGCTTTCCTTACAGCTCTCGACTTCCTCAA
AGGAGTCATAAATTCGGAATTTGGCTTCTCTTCCTGTTGAGGAAGCTGGAAACTG
Sequence 4352
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTTTGCAAAATTAACACAAAGCTAATAAGCTGAATACACAATGCAAAGC
ATCCTAAATCTTGGGCAATAACAAAATCTAAGATCCTAANATCATGATATTTAAGGTAGG
AAAAAAGTAATTANACTAGAACTGGGGCGCGGGTGGCTCACGCCTGTAATCAATCCCAG
CACTTTGGGAGGCAGAGATGGGTGGATCACCTGACGTCGGGAGTTTGAGACCAGCCTGAC
CAACATGGAGAAACCCCATCTNTACTAAAACTACAAAATTAGCCGGGCGTGGTGCCACAT
GCCTGTAATCCTAGCTACTCCGGAGGCTAAGGCAGGAGAATTGCTTGAACCCAGGAGGTG

Table 1

AAGGTTGT
Sequence 4353
GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGGGTAAGCAT
TAACAATATTATTCAAAATGTTATATAGAGTTCAACTGTATACAATAGAGCATTTATTAA
AGTGTGTCCAAAGCGCTTATAAATAAAGCATCTTCGAGGCAGGCGGCTCACTTGAGGTTA
GGAGGAAAGCAGACTGGGCCAACATGGTGAAACCCCGTCTCTGTGGTCCCAGCTACTTAG
GAGGCTAAGGTGGGAGGATCACTTGAGGACAAGAAGTTGAGGCTGCAGTGAGCCAAGTGT
TTGTGCAATTGCTCTCCAGCCTGGGTGACAGAGTGAGACTCTCAGGAAGCCGCAGTGTTA
GTTGCCTCTGATTTTTGACAAGCATGGGAAGATGGGGGGCTGTTCATACAGGGCAAGCTT
CAAGTGTCCAGTCAAAT
Sequence 4354
GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGAATTCCTACA
GGAGCTAGCCAGCTGGTTCTCTATCCCTGGGAAATTCCCAAGTCACCACCGATAGCTTTG
CCCTAGGTCATGAGGACAGAGGGGTTCCCAACAGTTTGGTGGTCAGCAGATTGTCAGAGG
GGTGAAGGGAGCAGAAGCAGCATTCCCACCTTTTTTTGAACGGAGTCTTGCTCTGTTGCC
CAGGCTGGGGTGCAGTGGCATGATCTTGGCCCACTGCAACTTCCACCTCCCCGGATCAAG
CAGTTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGAATACAGGCGTGCCCCACCATGCCCT
GTAATGGCTTTGTATGTTTACTGGAGACGGGGGTTTCACCACGTTGGCCAGGNCTGGTTT
CTAACTCCT
Sequence 4355
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGA
TCGCTTCCTGGTCCTCGCCTCCTCCGCTGTCTCCCTGGAGTTCTTGCAAGTCGGCCAGGA
TGTCTCAGTGTAGACCCTTGTCTGAGACCGAGCTATGTGGGGCGACCTCTGGCTCCTCCC
GCCTGCCTCTGCCAATCCGGGCACTGGGACAAGAGGCTGAGTTTGATAAAAGCTGCAAAG
GAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAGATGCTGTTCATCTATGGCCAC
TACAAACAAGCAACTGTGGGCGACATAAATACAGAAACCGGCCCGGGATGTNTGGACTTN
CACCGGGCANAGGGCCAAAGCTGGGGATGGCCCTGGGAATGGAGCCTTGAAAAGGGGGAC
Sequence 4356
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGGGAGGCTGAGGC
AGGAAAATTCTTGAACCCAGGAGACGGAAGTTGCAGTGAGCTGAGATCACACCACTGCAC
TCCAGCCTGGTGACAGAGCAAGACTCCGGCTCTTAAAAAAAAAAAAAAAAAAAAAAAAAG
AGAGAGAGAAGAGANTAAAATAGAAAAAGAATGTGGNTGGGAATTGTGAATCAAAAGATT
ATACCCCCCAATTGTTTTTCANTCCCCTTTTCTCAAATAATAAATTAGTTAAATCAGTTT
CTGAGTTATGCCACTGGCTTGATGAANAGTTGAGAAGGTTCTNTTTGCANNAAATGATCT
TTTTTTGTTTCGTTTTTGTTGNCTGGCTTNCTGCGATTTTAAAAAATTTAAAAAGGATTT
GGGTTTTTGAAG
Sequence 4357
GNCGGCCGCCCGGCCNGGGTGGANAAGGACAGCTGNTTTTTTATATAGATTAAAAGAAAT
CTCAATCTTCAAAGTTTCTATTTACTGTAACAGTAGATGGTTTCAAAGAAGCACTTGGCC
GGGCACGGTGGCTCACACCTGTAATCCCAGCACTCTGGGAGGCTGAGGCAGGCGGATCAT
GAAAGTTAGGAAGTTTAGAAGACCAGCCCTGGCCAACCATGGGTGGAAACCCTCGCCTCT
TACTAAAAATACAAAAAAATTAAGCCAAGTGTGGGTGGGTGCATGCCTGTAATCCCACCC
TACTCGGGAAGGCTGAGGCAGGAAGAAATTGCTTTGAATCCAGGAAGGCCGGAAGGTTTG
CAAGNTGAAGCCNGAAGAATCATTGNCCACTGCCACTTCTTAAGCCCC
Sequence 4358
CGCGGTGGGCGGGCCGCCCGGNCAGGGTACAGGCCCATATTTGTTTACTTTTTCTGTAGC
TCATATATCTATTATTACTGGTGGTTTCTTAGTGGAAATTTTTCTTTCACTCTCACTTTG
GCTTTACCTCCAAGTGCTTTCTTCTCTTGGCTGCAATTGAGCACTATAATTTGTGGCTTT
CCGGAGGGGGAGCCTTGGTGGTCAGGTGGAGGAGGCAGGCCACATTCCAAAAGTGGAGTG
GTAGGTGTTCCAGACAGAGTGCTGATTCAAGAGTGAGTAGGGGTGTAGGGTGAAAAGTTG
GCTACTAAATTCAAGCCTCACCTGGAGGCCAGTGTTTGCCTCAAACAGNAAAAAGGTGCC
CCTCCTCNTAAATTAAGCCTGCCCCCCCATATTGCCG
Sequence 4359
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAGGCAATGTAACT
TTTGATTTTCGGTCAATTTAAGTTCTTTTGTCACCAAATATTAATAAACAGTTTTGACTT
CAAAAAAAAAAAAAAAAAAAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGTCCCT
Sequence 4360

Table 1

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGAGGTGAG
AGTCGCGCCCGGGAGTCCGCCGCCTGCGCCAGGATGGAGTTCGTGAAATGCCTTGGCCAC
CCCGAAGAGTTCTACAACCTGGTGCGCTTCCGGATCGGGGGCAAGCGGAAGGTGATGCCC
AAGATGGACCAGGACTCGCTCAGCAGCAGCCTGAAAACTTGCTACAAGTATCTCAATCAG
ACCAGTCGCAGTTTCGCAGCTGTTATCCAGGCGCTGGATGGGGAAATGCGCAACCGCAGT
GTGCATATTTTATCTGGTTCTCCGAGCTCTGGGACACACTGGGAAGATGACATTGACCCA
TCAGNTGTTGGGAAAAAGAAAGGGTCCCGGCTGTTTACAACAAACCTTTTCACCTCTTTT
TCCTTTTTACCCA

Sequence 4361

GCGGCCGAGGNCCTNNATTTTTTTTTTTTTTTTTTTTTTTATTAGAGGTGGGGTTTCACCA
TGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAAATGATCCACAGCCATGAGTCACTGC
GCCTGGCCTAAAAGAACTAAATCTTGTAGTAGGAAGTTGTATGTAATTACACTGCTATAT
TACCTACAGCTTTGTGTATGTGATCTGATCTTTCTTTGCAGGGCAAATGCAAGAAAATAG
GAGACAAAGGACAAGGTAGAGCAAATNTTCAAGCACACAGAAATAATGTGGGGNAGTAAA
AAGCTGAAACTACAGGCCAGGGAGTTANGGGGGGGGCCAAAAAATCAAAAGCCTGTCCTG
GCCATTGGATNCAACCTTGGGATTAGGGTTGA

Sequence 4362

TNCTTAGGGCGAATTGGAGCTCCCGCGGTGGNCGGGCCGCCCGGNCGGGTACTCTATAAA
TCTAGTGGGAAACATTTCTGCACAAACTAGATTCTGGACACCAGNGTGCGGAAATGCTTC
TGCTACATTTTTAGGGTTTGTCTACATTTTTTGGGCTCTGGATAAGGAATTAAAGGAGTG
CAGCAATAACTGCACTGTCTAAAAGTTTNGCGCTTATTTTCTTTGTAAAATTTGAAATAT
TGCATATTGGAAATTTTTTGTTTTAATNGATCCTATGAAATGGTTTTTTTCTTAAAAATT
TTAACANAAAGCCTTTTNGTNAAAATTTAGAATTTTTTTCCTTTTAAATAAAAAAAT

Sequence 4363

CCGCGGTGGGCGGGCCGAGGGTACCAGTAATTGAGTAATGGTGGAAATGTGAAAGTCAGT
CACAGGACTCTCATTGGTGCCAGTGTCATAGTTAAGAAAGAAAGAAAGAAAGTTTTATAT
ATCCTGTAATCTAGACTGGAAGCTAAATAATTGCTAGGAAGCAAACTTAAGTGATAGCTG
TTAAGTTTTTTTGGTTTGTTTTTGACCAGAGATGATGAAGTTAGGTGATCTTTTCTTGGT
TTGCTCCTANACTCTTCCATTTTAACTTATATTTNTAGNTTGGTGCAAAAGTTAATTGCT
GTTTGGGGACCATGAAATTTTAAGCCATTAATAACTAGGGTTCACACANAATGNTTTTAT
TTANATTAAAAAATAGGGAAACCCATTTTACCAAATTNAAACCACCATNTTTTGGCCCAA
TTGG

Sequence 4364

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCACCACACC
CAGCTAATTTTTTAAATTTAGTAGAGACGGAGTTTTGTCATGTTGGCCAGGCAGGTCTCG
AACTCCTGGCCTCAAGTGATCCACCTGCCTTGGCCTCCCAAAGTGTTGGGATTACAGGCG
TCAAGCCACCACGACCAGCTAACAACCATATTCCTAACACATATGCTACTAGGACTGTGT
GGATTTTATAACTACATCATTAAAATTCATCTTGCCTTTGGGGAGCTTACAATTTAATGG
AAATACTGAATTAAAAATAACACACATATTACACCATGTGAAAAACAGCTTCTAACACCA
AGCCACGGGTAAAAGATGGTAATGNCAGCTTAAGNAATGGGAGNCCCTATGGAAAAACAT
TTTTNAAATTTTAT

Sequence 4365

TTAGGGCGAATTGAGCTCCCCGCGGGGGCGGCCGAGGTACTGCTAGTAAAACCAATGAAT
GTTTAACTCCTTCATAAGCAAAATTATTTTTATGTGATCTCTAAGAAATTCCTCCTTTCA
CATTTTTCTGTTTTCATACAGGTCCTCATGCTGATACCGCCAGTGGATGCCAGAATTTGC
AGTGTGGTTTTCGAAGCCTGCTGCCCGCTCTGGGCGAATGACCCTTGACTTCTGGATCTT
TTGTCTACTTCATTTAGCTGAGCAGGCTTTCTTTCATGCACTTTACTCATAGCACATTTC
TTGTGTTAACCATCCCTTTTTGAGCCGTGGACTTGTTTTGGGCCCCATTTCTTTACAACN
TTCAGGAAAATTCTTAATTTTACCAGGTGAAATTGTAAATGGTTGGTTTTCTCTTGCAAA
ATTATACTTTTTTGGG

Sequence 4366

CTACTATAGGGCGAATTGGAGCTCACCGGCGGGTGGGCGGGCCGAGGGTACGNAAACTCC
CCCATTATATTAGGAAAATAAATAAAAGGTTACCATAAGTAAGCTCCAGAAAAACAACAT
ATTGCCGACCTCACGGATTTTTACCAACCACTCGCTTTCCCTGTGGCCTTGGCACACTGG
CATGCTGGTCTAGGATCCTCTACGCACAACGCCTGCTCGCCTCCTCCGTGTGGTTGCCAA
GCCAAGCCGCCTGCTACCTTCATCACCAAATTGCACTCGCTCCTTCCTGGAATCCTTTTT
CCTAGATTCACCACCAAATCGTTAGCCGCTCCTTCCTTCTTCCTAGCTTTCCTTCACCAA

Table 1

AATCGCACTTGGCCTCCCTGGGACNTCTTTTTCCTTATNCTTTCACCCACCGAAACCTGG
CTGGCTTTGGCTTCGGCTTTGCTTCCTT
Sequence 4367
CACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAGAGTAGCTGC
CCCTTCTCAGGGCAGATGATGCTTTGAGAACATACTTTGGCCATTACCCCCAGCTTTGAG
GAAAATGGGCTTTGGATGATTATTTTATGTTTTAGGGACCCCCAACCTCAGGCAATTCCT
ACCTCTTCACCTGACCCTGCCCCACTTGCCATAAAACTTAGCTAAGTTTTGTTTTGTTTT
TCAGCGTTAATGTAAAGGGGCAGCAGTGCCAAAATATAATCAGAGATAAAGCTTAGGTCA
AAGTTCATAGAGTTCCCATGAAACTATATGGACTGGCCACACCAGGATCTTTTTGTATTT
TAAAGGGATTTCTGGAGAATTTTTGGCTTGGAGCCAAGGGATTTAGGATAAAGGGCTTGT
TTTCTTTTAAAATGGT
Sequence 4368
CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTATAATCAAATTTTTTTTTATTTTTCTACAGCAAAATAAAAACATT
ATTTTAAAAAGCAATATTCTACATTAAATACATTAAGATATTGACAATTTTATAAATACA
ATCATTTTAAACAGTAAACATGATAAATTTCTGATACAAGGNTTTACATACCGTTAATTG
NGAAAATGTAAAAACTTTACACACTTNTNTTAAAAAGCATTCAACGTAATCAATTTTACA
AAATTATCAATTTAAAAAGGNGTTAGGATANGGCTNCTATTTTGTTCCATTTATTAAGGG
CAAATGGATTAGGCATATTCAGGATNCTTTAAAAAAAGN
Sequence 4369
GCGGGCCGAGGACCTNCATTTTCTTTTTTTTTTTTTTTTTTNATTTTNTTTTTTTTTTTTT
TTTGGGCAAAATTTTTTATTATGAAGATNCAGATCTAANAACAGAAGGATAATTATGTGC
TANCTTATATATAGTTCCTTGTAAAAATAATGATACATGAAAAATTTNGTNGAAAATGGA
AAATCTGGCAGCTATNTGATATCTNAAAANGTTAAGCAATNTCCCCTGCNTNTTTAGCTN
TAATNGACTTTTNCANGAATAATCAAGCATATTTGGGTTGAAGNAGAGTNTTTAAATGCA
TTTCCATTTT
Sequence 4370
ATAGGGCNATTGGAGCTCCCCGCGGNGGCGGCCGCCCGGCCAGGTNCTTACTGTGCTAGG
TGCTGGAAACACGAAGATGAAGAGCCAGAGCCTTTGCTTTTCAGAAGCTCATGGTCTGTT
GGAGCAATAGACTTGAAGAATGTGATGAGGAGGGTATTAATTAAAAGTTGTAAGCCAGGC
GTGGTGGCTCACACCTGTAATCCCAGCACCCTGGGAGGCCGAGGCGGGCAGATGACGAGG
TCAGGAGATCGAGACCATCCTGGCTAACACAGTGAAACCCCATCTCTACTAAAAAATACA
AAAAATTAACCAGGCGTAGTTGGCGGGTGCCCTGTAGGTCCCTAGCTATTTNGGGGAGGC
TTGAAGGCCAGGNAGAAATGGGTGGTGNAACCCCAGGTAGGGAGGATTCGNCGCCCACTT
G
Sequence 4371
GGGGCGGCCGCCCGGNCAGGTCCAATAGCCTNTGATGCTAACATGTAGCAAAAGTGCCTG
AAGGCAAAGGCGAAGTTAATTTCTAAGTATTTGTATTTTATTATTATTATTATTTTTTTT
ATTGAGACAGAGCTTCGCTTTGTTGCCCAGGCTGGAGTGCAGTGGGCACAATCTTGGCTC
ACTGCAACCTCTGCCACCTGGGTCCAAGCAATTCTCCCACCTCAGCCTCCCGAGTAGCTG
GGACTACAGGCACCCTCCATCGTGCCCAGCTAATTTTTGTATCTTTAGTAGNAGACCGGG
GTTTTGCCATTGTTGGCCAGGNCTGGTTCTCGAAACTTCCTGACCCTCAAGGTGGATTCC
ACCCTACCCTTCGGGCCTTCCCAAAAG
Sequence 4372
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGGCCGAGGTACAAAACAGCCNGGG
CAAGGGTGGGCGCACACCTGTAGCCCCAGTTACTCAAGGGTCTTGAGGTGGAAGATCCCT
CAAGCCCAAGAGGTCAAGGCTGCAGTGAGTCATGATCACGCCATGCCATGGCACTCCAGC
CTGGGCAAGACAGTGAGACCCCGCCTCAAAATAAAGTAAAATATAAAATAAAAACAGCAA
GTGGGAACTCAGCATTCAAGTTAACTTGTAGAGCTACCCAGCTGCTAAGAGCAGTGTGAT
CCTTGGTGCTCTTAGGATCACTTTGGTATCTGCTCATTTTCCTTTTTGTCTACCCTATAA
AGCACAAAATCGAGGTGGGTAAAAAGGTATGAAAACCAGGCACTGTTTCTACTTTCTTAA
GAGGT
Sequence 4373
GTGGCGGGCCGAGGGTACTGTGGGAGTATATTTTATNTATAGAACTATAATATATAGTAA
CAATAGCACAAAGCATGGAAAGGGGTAATCGAAATATACTACAGTAAAGTTCTGACATTT
TACATGAAATGTAGAATATTATTTGACTATAGACTATAAGTTAAAGATATATATTGTAAA
CCCTAAAGCCACAACTAAATATTTAAAATAAAGATGTATAGCTAATAAGGGAATAATTAC

Table 1

TATGCAATAGATTAATAAAAAATTCTCACTCTGAAAGAGAAAAAAAGAAGAAAAGAACAA
ACAGAGCAAATAGAAAACAAATAGCCAAGATGGTAGGTTTAAACCCAACATTATTGGATA
ATTACCATTTAAAGGGCTGGAATATTCCAATTTAAAG

Sequence 4374

CGCGGTGGCGGGCCCGAGGTACAAAAAAGGAACCAATATAAATTTTCACATGAAACCCTT
GGCTGTNAGTTGCCTTTCCTAGCCTCCACTCTTAAGGCCTAAGNCATTCTTCAAAAGACN
GTNTNNTCCCATAATGCCTNGNTCTNTACATNTACTTTTTTCAGCTNCAATGTCAACCCN
GTTTCNTTACCCCAAANACATTCNTTGNGCCTTGGGGCCAATTNCCTTNTACCAAAATGN
GGAAGTNTCTNGNAAAGGCNTTGGNTTTTCACTTACNCNTNAAAAAAACCAAAAATACTC
CTTNGGANCCATNTTTTATCATTTTATCTTGGCCNCCACANNANAGTTCCCAAAATTNAA
CCTANAATTCCCCTTNTTGTCGGGANAANTATTGTANTTTNTTAATTCCCTTGGCCCANN
TTANAANAAATTTTTCTTTTAACCAAGNGNGAANGANAAAAAATTAAATTGGCAAATTTC
CAACAAAAACCNCCCTTTTGCNAANTATTNTTNTNTTAAAAANAACCCNCCTTNCCTTTA
TCTTTTNACCTTTCCTTTTNTTGGAAACCCAAAACAAAAANCCNTTTTNCNCCTTTTTTN
ANAAAAAAAAAAGACGGGAAAAATTTAACCTNCCAAGGGNAATTNACANNTNANTTTAAA
GNNGGCTTATTAAAAATTAAACNTCCCCCTTTTCNNCAANTCNTTNNCNAAAAGGGGG

Sequence 4375

CNCTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTCATT
GCGATCAAACCAGATGGGGTCCAGCGGGGTCTTGTGGGAGAGATTATCAAGCGTTTTGAG
CAGAAAGGATTCCGCCTTGTTGGTCTGAAATTCATGCAAGCTTCCGAAGATCTTCTCAAG
GAACACTACGTTGACCTGAAGGACCGTCCATTCTTTGCCGGCCTGGTGAAATACATGCAC
TCAGGGCCGGTAGTTGCCATGGTCTGGGAGGGGCTGAATGTGGTGAAGACGGGCCCGAGT
CATGCTCGGGGAGACCAACCCTGCAGACTCCAAGCCCTGGGACCATCCCGTGGGAGACTT
TCTGCCATACCAAAGTTTGGGCAAGGGAACCATTTATTACATGGGCCAGGTGGATTTCNT
GGTGGGAAGAAGTTGCCA

Sequence 4376

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGTANAC
ACGGGGTTTCACCGTGTTAGTCAGGATGGTCTCGATCTCCTGACCTTGCGATCTGCCCGC
CTNGGCCTCCCAAAGTGTTGGGATTACAGGCGTGAGCCACCGTGCCCAGCCCCACCTNAA
TTTTATAATATAATTTTNTACACAGAGAACACAGAAAATAGTTGTCTTTTGTTTACAATA
GANAATCAACGTTTTTTTTTTTACTACTTATAGTTTANAACTAAAGTTTCAGCTTCACAA
CTATTGGTGATGCTATNTAAATGTNNTCAAATTACTGAATTTGNGAAAACCTCTCANGTT
TTCTTTCACATTGNTGAGTTACAAGGAAGATTTAT

Sequence 4377

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTGGAATG
CTGAGGAGACAGGAGTGAAGTAAAAAGACATGGTTCCGGCAGGAAACAGGCAAGGAGAGC
CTTGACTTGACGGAGTCTGGCTATATCGCCAGGCTGGAATGCAATGGCGCGATCTCTCCC
CACTGCAACCTCCGCCTCCCGGGTTCAAGCGATTCTCCTGCCTCAGCACCTNGAGTAGCT
GGGACTACAGGCGCGCGCCACCACGCCCAGTAAGAGGAAATAACTCTACATTCAAATTTG
AGCAGGGCACTTGGTGACCTACTTAGACATGACATTCCTTGGCCTCCCTTTCAGCAAGGA
TGAGAAAACTGAGGCACAGAGAGGTGAAAATAAGGCCCC

Sequence 4378

GCGGCCCGAGGTACTTGTATGGGGCTGTCACTGACTTGACATGCTGCTGCAGTTCCTTGG
TCAACTGATCCTTGTCATGGGACAGGAACTGTGGGGTCAGGACAATAAAGGCCTTCACCA
CCCAGAGGCATTAATGATGTCATCACTCCTCCCCAGGAAACAAATGTAGCCCTCTTCATC
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CTGGGTCACCCTCATAGCACATGAAGAGGCTCACAGGCCTGACAGGTTTGATTCTGATGC
CAATGTTTTCCTTCTGTGTTANGGTGGGCNAAGGNATGCCTGGCCCCTTGTTCATCAAAA
TGNACCTGNGACCGTTCATAAGGGGTNGGGAGNTGGGCCCTTTCC

Sequence 4379

CCGCGGTGGCGGCCGCCCGGNCAGGTACAGANAACCATGGGCTGAGCCTTACTTTTCAGC
CACAAAATANAAATNCTNTCATTAAATCTTANAATCTGAGTTGGCAGATAACCTNGTCTA
ATACCCTTNTAACTAAAACTATTCCACAAGAATTCCTNAATCAACTGNCCTCTGTTTTAA

Sequence 4380

CCGCGGTGGCGGCCGCCCGGGCAGGTACCATGCTGACTTCTTGGTATCTTTTAAGGCCTA
ATTTTCCCTTCCTTGAGATTACTGTAGTGTGTTCCAGCTAATTTCTATTTGGAAACGAGT
TGGAACAGCTGAAAACTAGGTATTATTGAAGGCAAAGCAGCCTCACGTCAGTTTTTTATC

Table 1

AGCTCATTTGGGAAGNCCTTTTTTTTTTTTTTTTTTTTTTTAATTAATTANAAAGTAGGCT
GGGCACGGNGGCTCATGCCTATAATCCCAGCACTTGGGGAGGCCGAGGATCTCCTNTCTG
GNGGATCACTTGAGGGCAGGAGTTAANAANACCATNCTGGCCAACATGATGAAACCCTGT
CTCTACCTAAAAAA

Sequence 4381

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTNTNTTTNTTTTTTTTTT
TTTTTTTGNGGCTTTTATCCTGTCTGGGTGTTCTCTGAGCTTCCTGAATCTGNGGTTNCG
NGTCACATATTAATTTANAAAAATCT

Sequence 4382

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTNNNTTNTTTT
TTNTNTTTTTTCTGCCAAAGGCAACATGTTNTAATGTACATATCTTTCTTTAACATCTGG
TAAGGCAAGTTCTNCATTATATCACGGCCTTGGAATCTTTA

Sequence 4383

ANGTACATGGGACTACAGGCACGCCCCACCATGCCCAGCTCATTTTTGTATTTTTAGTAN
AGACAGGGTTTCACCATGTTGGCCAGGATGATCTTGATCTCTTGACCTCATGATCCGCCC
GTCTTGGCCTCCCAAAGTGCTGGGATCACAGGCGTGAGCCACCACACCTGGCCCTCTATT
TATTCTCTTTAAAGAGAGAGAAAACTATGAGAGGCCAAAATTATTTAATTAAATCTTTAC
CTTAGCACAAGGGAAAAAAATGGAATTTTGCCTAATATAGGGTNGATNGAAGCATACACA
ATGAATAGAAACAATCACAATTTTTAATTAAAAAGGGCCAAAAAAATTTTTGGAAGAACC
TTTAATTAAGGCCTTATTNTTGGGNTAAGNCTTTNATTTTTTTTTTGGGGGTTN

Sequence 4384

NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACANGATCTGG
GAACTAAATATTAAAAATGACGTGTGGCTGGNTATATGGAGAATGTTGGGCCCAGAAGGA
ACCGTATAGATCAGATAT

Sequence 4385

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATAGATTATT
TGTCTTGAAGAAGAGCTTTGATATGTTTCAAAATTCGACGTTGGCTTTGGAAGGAAACTG
TAAATTTACAGATCTTTGTCCTTCCCCACAAAGAGCCTTAATCTCACAGGTTGGATTATG
TGGAACTCACTGCTATTTTTCAGGTTCTCCTTTAAGTGACTAAGGGAACATCCAGATACT
TTCAAAAAAAAAAAAGTCTAAGTTTTTTCACTTTGTCCATTGCCATTTAAATTATCTTCT
GCATATTTTAAAGCATTTCCTGTGAACATAAGNATTGCCCATCCAGAAAAATTTGCGTCC
TACANTTGATTTTATGTTTAAATGGA

Sequence 4386

TAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACATACTCATTGCCT
ACTTTAACACCTGTCAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTTAAAATCGTT
CATAGACTTCTGTAAAATGCAAGATAAATTAAAGTTATTATAACAGTGATTCTTTCAAAA
TAAAAAAATANGANANAANCNTNAAAAAAAAAAAAACAAATTANAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

Sequence 4387

CGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGANGTACTGTGTAACACAT
GGCCTTTCAGTAAGAAAAGCGTTGATGGCATTGCCTGGCAGAAGGAAGTAGAGAGCAGAG
GCTTAGGGGCTGTGTGCCAGATGGCATTTTGGGAGAAGGAGAACATCTCACTTCTTTGAA
GGCTTGAGATCTCAGGTCCAAAGGAGACTGAGTGTGTGGGAGGAGTGGTAGCTACTGACC
AGGAAGTTGTTGCTGGCTGCACTTCCCTCCTGATAGGGAATCCTGGATTGCCTACAGAGG
GGTCTGAGGCAATTGTATCTGGTTTGGGGTTCTACCAAGTTGAAGCTGGAGATTTGTAAA
AGCTTGTCATCTATTGATCGTTGGTCCTTGTACTTAAGTAATCCAAAGCTCGATCCTGAT
CTGCATGGAATTAGTATCA

Sequence 4388

AGCCCGTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTT
TTTTTTTTTTTTTTTTTTTTTTGTTTTTCATTTCCCTGGGGACACTAAGTGATGCCTCTTC
GGATTATCTGAAAATGTGGGCACTCTGTATGGCAAGATGGAACTGGCTGTCTTTAAGGAA
ATAGTTTCAACTGTTCATGCCTCTGTTTCTCCCTTCATAAAGTTGGTTACTGAGCCTGCA
TTCTAAAGTGCCTGTTGTGGCCGGGCATGGTCCCTGTAATCCCAGCACTTTGAGAGGCCA
AAGTGGGCAGATCACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATAGTGAAACC
CCGTCTNTACTAAAAATACAAAAAATTAACTGGGCATGGTGGCC

Sequence 4389

Table 1

651/863

CCGCGGTGGCGGCCGAGGTACAAATAAATGTTAAGACATGATCCCTGTTGAAATCCAAAA
GATAAAAAGCCCTTAAGTTTTCTTATTTTATATTATAAATGGACAAGGCAGCAAATGGTA
TTAAGGATACTTTTGGTAAGAGAATAGTTTTTATCAGAGCAGGCTGCAGGTAGAATATTT
CTCAATTACTATTTACAGCTGAGTAACTTTTTTCCTATGGACATAAAAATATACACTCTG
CAAATGATTTTTTAATGAAAAATGACAGCCTATTTTCTGCAACTTGGTTTTTTACATAAT
AATCATGGACATACATCTAAGAATTGCATATGTAGATCTCCTGTTTTGATGATCACCCTA
GAAATTCTGTTTTGTTGGGTTGTGCCTTTAATTGGACCCAATGGTCTT
Sequence 4390
AAGTACTTTTTTTTTTTTTTTTTTTTTNTTTTTTNTTTTTNTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTTTTTTTTTTTTTNAAAANTTTNNNT
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AAAAAAAANAACAANANCCNGNNGCNCANANNAAAAANGNGNNCCCCCCNNCCNNGNNNN
NCCCCNNNAAAAAAANNNGACNCCCNAAAAAAAAAAAAAACNNNNCCNNNNAAGGAAGNG
AACNCCCAACCNAGAGGGGGNGGCCCCCCCCNAAAAAAGNGGGNNCCCCCCCCTGAANAA
AAAACTAATTCCCCCCCCCNNNGGNGAAAAAAGGAAAAACANNACGNGNCCNNANANNNA
AAAAAAAAAAA
Sequence 4391
CCGCGGTGGCGGCCGCCCGGGCAGGTACACATATACTAAGCTGTAAATAGTCTGCCTTCC
ATTAGTTTGGTCTCTAAGCACTATAAATATGTCGACTTCATATCAGTCTATGAGACCCAG
TGACCCCCTTTTCAGAGGCATCGGTAATACATTTGGCAAATGTCTTGAAAACATGAATTG
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GTAACCTCTGCAAGTCACAGCTCCACATTTACATACTGTTCTGGACCCTCTTTTTGGCTG
GGNCTGTGGGTCAATAGGAATTCTGGAAGATATATCTCCAGGAACCCTTT
Sequence 4392
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TATATCTAAAAACTAACTCAAATCGTTGACCAGCACTTTCCCAGTATCATAACAATGCGG
CTGACCCTCTTCTGCCTTCACTTTACACCCCATCATAGCACATTATTTGTGCACAACTAG
TGAGGTCTGTGCGGCTCATCATCCCCATAACCAAGTCGGTCTGTGTTGAGTCATATCATT
CTGTGCTGGTTTTAGAAGTCACCATAGGAAACATGAAGTCACATCCTGGTCAAAAAACTG
TCCATTTCTCAAAAACAGAGAAAAACCTGAGATACCGAGGCAGCAACCTAGCGACACTTA
CAGGGAAGGGGAAAGGAACAATGACAACACCCCNCC
Sequence 4393
AGGTACCTGGAAGTGGGATGTTCTGAAAAGATATCTGAAAATGTGGAAACGACTTTGGAA
CTGGGTAATAGGCAGAGGTTGGAACAGTTTTGAGGGCTCAGAAAAAGACAGGAAAATGTG
GAAAAGCTTGGAACTTTCTAGAGACTTNGNTAGAAATGGCTTTTNGCCAAAAATGCTGAT
AAATGATATGGACAATAAGACCCAGGCTGACGTGGTCTCCGATGGAGCTGAGGAACTTAC
TGGGAACTGGAGCAAAGGTGACTCTTGTTATGTTTTAGCAAAGCGACTGGCANCATTTTG
CCCCTGCCCTAGAGATGTGTGGAACTTTGAACTTGAGAGAGATGATTTATGGTATCCTGG
CAGAAGAAAATTTTCTAAGC
Sequence 4394
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACCATTTCA
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TAAAATGTGTTCTTAAATTTCACCTGCCTGTTTCCTTTTTATTCTTTTTTTTTTTGAGGC
GGAGTTTNCGCTTTTAATCACCCAGGCTGGGAGTTGCAGCGGCGCGATCTCGGCTCACTG
CAACCTCCGTCTCCTGGGTTCAAGCGATTCTCTTGCCTCAGCCTCCCAAGTAGCTGGAAT
TACAAGCATGTGCCACCATGCCCGTCTAATTTTTGTATTTTAACTGGAGACCGGGGTTTC
ACCACCATGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAGNATGATCCGCCCGCCTCA
Sequence 4395
GTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGCGGAGTTTCACCTGACCTTAGGT
GATCTGCCCACCTTGGCCTCCCAAAGTGCTGANATTACAGGCGTAAGCCACTGCNCCTGG
CCTCAATTCTTTTTAAATTCTTTTTAATGTAAAACAATAGAATTAGGAATCCAAAAAAGA
ATAAAGAAAACTGGACTGACATAACAANGACAGGAAGAAAACAAACAGAATGCATAATTN
TCAGTNTAAAAGATGGCNTAAAATCAAATGTAGCAGTTATTACAAAAGAAGAGTCAAATT
CCCCTACTAAAAGGTAAAAACTNTAGAGTTAAAAGNACAAAAGCTNTTTTGAGACAATTG
TACCTTGCCCGGGCGG

Table 1

Sequence 4396
AGGTACTTTTTTTTTTTTTTTTTTTTTTTAAGGGAAAACATCTTTTTTATTATTATTAT
TTTTATTTATTTATTTAGAGACAGGTTCTTGTTCTGTTGCCTGGGCTAGAGTGCAGTGGT
GCAATCCTAATTCACTGTGGCCTCAAATTTCCTGGGCTTAAAAGGGGAATCCTTNCCTTG
CCCCNCCAACCCNNTTTNGAAGGTTAAGGAATAAGGGAAACTTATCTAGGGGGCAACCAA
CNNCCTCAACTCAATTANCNCNTGGGNNATAAAANTTTCTATGTCTCTTAATTATTTCTN
TANTNTCTCCCGNTTAANNCAAACAACNGTGNANGGGGNTTCCCNANGNCCCCAAAAGTT
Sequence 4397
CCGGGCAGGTACTTAGCTTTTATCAAATATATAAGTATTTGATAAAATACTCACGTAAGT
TACAGGAAACACTTCCGCATATGTTGTATAATCAAGGTCACTGTCTACTTTGTAATTCAG
TGACTATTAAGTTCCCAATGAGAAAATGAAAGAATTGCTGGGTTCCTACTTTCTGATAAG
AACAGTTCCTTGATTTCCCCTTTTTTCTTGGTTGTCAGGAAGCTCCACAGAAAAGTCTGT
CTAATCACAGCAACCGTAATAATTATCATGGCTTAGAAATTCATTTCTTCATTCTAAGAT
CATAATTTTCTATTTTCATTTTATAAACCAGATTGTTATTTGAAGCAGCTTCAAATCTGT
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AAAAGATTAACCTTGGACTTGCCAATCTAGTCATCTTTTTAAAAAAC
Sequence 4398
CCGGGCAGGACAATATGGATTGGGATTTCGATTCTCTCATACCTGTGAGGCAATCAGTTC
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GTTTGGGATATGGCATACNTTTAAAAGATTAANNCATTNGGCTTGGAAANTTNAANTTTT
NAGTAGANTGNCAAACCTTTNCAANAAGNNGGGAATTAGGAGGTTTTCCAAAACTTNGGG
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AAAATTNCTTTAAACGTAACNCCCACCNTTTTTTCTT
Sequence 4399
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TTTGTTATCAAGTTCTATACACTTTACAATCAATTANATGTTAATTNTTTTATAGAAATN
TTATATCANAATCAAGTTATTGGCTNTCCTNCAAATTTCCCTGNCCCANANAACTCCTAG
CTTTNCAACTTANTAACTGTGTAACGCANAANTCACTTTAAANCTCTGGCATCCAAATTT
CCTACAAGGTTGCTATAAGGATCAAACAAGAANATGTNGTNAAAGCAAATGAAGCACCCN
TGCCTTNCNTTTNTTAAAGAANTCAANAAAAAGCTNAATTNATGTCCTTTCTTCNCTCTA
AAGAAG
Sequence 4400
CCGGGCAGGTACGCGGGGACAGCTGTGTTTGGCTGCAGGGCCAAGAGCGCTGTCAAGAAG
ACCCACACGCCCCCCTCCAGCAGCTGAATTCCTGCAGCTCAGCAGCCGCCGCCAGAGCAG
GACGAACCGCAATCGCAAGGCACCTCTGAGAACTTCAGGTAGGAGAAAAGCAAACTCCCT
CCAACCTCTTACTTCGGGCTTAAGGCAGAGAACTCGCCTCCCCAGAATCTCCTCCCTCCA
TGATCCCCCGCTATTCCTCTATTTTCTTTTCCGCGGACCTGCAGCCTTGGGTCGACCCTG
CCCTAGGGGTGACTGCAGGAGAGCAGGGAGGATGGTCAGGCGTCACCAACAACCCCATCA
CCCAGTAACAAGAACCTTGACTCTCTCAGTCCCTCTGCATCAAGACACTTACCCATTTCC
CACCTCATGCCTGCTAACTTGAATGAAACAATCGCTGGGAAAGCATTAAGAGAATTAAGG
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ACTTGAGCCCAGGAGTTTTGAGAACCAGCCTGGGCAAACATGGCAAAACCCTGCTCTTCC
AAAAAAATACCAAAAATTAGCTNGGCGTGCTGGTGTGCCCTGTATTCCAGCTACTTTGGA
AGCTNAAGGTGGGAAGGATGCTTTNACCTGGGGAGGCGAAGGCTNCCAGGGAGCCAAAAC
TGANCCATTGCACCCANGCTGGGGGANAGAGCAGAANCTNTTTTTAAAATGAATNGAAAG
GGAGGGAGAAAGAGAGANGAAAGGGNGGGNGGAAAAAAAAAA
Sequence 4401
AGGTACNATGTGGGAAGACCTTTAGATTTGGTTTCTACCTTACTGAACACCAGAGAATTN
ACACTGGTGAAAAGCCCTATTAATGTAACAGAATGTGGAAGGCCTTTATTCGTAGAGGGA
ATCTTAANGAACATCCTGACAATTCCATTTNTGGNTTNAAAAACCCCTATGTACTTGTAA
AGGAAATGCTGGGNAAGTTCCCTTTTAGTTCNGGCCGTNGCNGCCATCTTTCACNTGGAA
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GTAAAACAAGNAAAATGNNTGTGAGTAAAGTGCCCCCTATCTTAAGATTCCGGTTAGGNT
GNNTATNTAACCCCNTNTAAAACAAAGTCACCCATTTCCACATAAGGAAAANTTTCCCAA
TAAACCNTGGGGATTNNNAAGTAAAACAACNCCTCTTTAATTGGANGGCTTGGTTAAAAA

Table 1

CCAAAATTGTTCGGNGNGNNAAAGNGGCCCCCTTTTTNAAGCAACCTTTTTAAAAATTNT
CNCNACCAACCCCCTTTTTAA
Sequence 4402
GGCGAATTGGAGCTCCCCGCGGTGGGCGGCCGAGGTACCCCAGCTGATGATGTTCCACAA
AAGAGCAAAACATACACAATCTGGTTCCACTCTACAGAAATCCTGGAACTGGACTACAAA
GGGAATAGACAGGGTGTGGCAGGAGGGGGTTCCTCACGGTTGGAGTGCGAGGTAGGGACA
GGAATAGAAGGTAGGTAATAAACATTCATGTGGTATTAACTTAGGGCAGATGTGTCAATG
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TATATATGGGTTAATACACAACACATACCTCCTAGAGTCATTACCTGAGAGGTTCTACAA
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AGAGAATATAGGAGTAAAGTCTACAATTTCTCATGGTACCTGCCCG
Sequence 4403
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTCAGTTTGGG
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AAAGCGGTAGAAGAAACAAAGCTTTCAAAAGAAAATCAGACAAGAAGCAAAAAGAATCTG
ATTTTTCAAATACTCTGAGTCCAAGCAAGGAAAAAAGCAGTGACGACACTACAGACGCCC
AAATGGATGAGCAAGACCTAAATGAGCCTCTTGCCAAAGTGTCCCTTTTAAAAGATGACT
TGCAGGGTGCACAGTCAGAAATTGAGGCAAAGCAAGAAATACGGCATCTTCGAAAGGAAT
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Sequence 4404
CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACGCGGGGAT
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CTCANCTCTCAAAGGGGAAAACAACTGCAGAGGATGGGAAATGCTATACTGCATGCCTGG
AAACACCCACAGGAAAATTACCAGTTTTGAGCTTGCTCAACTGCAAGAAAAACTGAAGGA
GACAGAAGCAGCCATGGAAAAATTAATCAACAGAGTGGGACCTAATGGTGAGAGAGCACA
GACTGTGACTTCTGACCAAGAGAAACGGTTGCTACATCAGCTCCGAGAAATCACCAGGGT
CATGAAAGAAGGAAAATTCATTGACAGATTTTCTCCAGAGAAAGAAGCTGAGGAGGCCCC
TTACATGGAGGACTGGGAAGGTTACCCTGAAGAGACTTACCCAATTTATGACCTTTCAGA
CTGTATCAAGCGTANGCAAGAAACAATCTTGGTGGATTA
Sequence 4405
CCGCGGTGGCGGCCGAGGTACGTGAATGTTTGCCTAGAAGTCCTGTTCCCTATATAATAA
TACTTTGATAATCATTTCAAATGCCAACCCTTCCTTAATATAAAAGTTTTGCGTTATGTT
AAATAAACTATTTTTTTCTTTATTCTTTTCTTTTANNCTTTATCTTCAAGCCAGGATGAA
GGGAGACTGGGCAAGACTCTTACGCCCCACACTGCAATTTGGTCTTGTTGCCGTATCCAT
TTATGTGGGCCTTTCTCGAGTTTCTGATTATAAACACCACTGGAGCGATGTGTTGACTGG
ACTCATTCAGGGGAGCTCTGGTTGCAATATTAAGTTGTAAGGTATACCAGGGTCAAA
Sequence 4406
CCGCGGTGGCGGCCGAGGTACTGGCATCAACAAGATAAGGTTTCCATGGAGCTGCCATAA
TTTTTCTATAACGCTGCCCCTAGGCCAGAATTGGTTGGTCTACAGGTAGATACCTGATCC
AAACTATGACAACCACAATATTCCAGCCCTTGACAATGATTGACTCTTCCAGGACGGGCA
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AGCTAATTGGTGCAGGACTGGAACTGGATGCAAGCTGACTCTCTGGATTGAGAACTAGAG
GTCAGACCATTCCCTGTCCCATGTCTGAAACTGAAATATGCAGCACTGGAAAACTGCTCA
TGCTCATGGCCATTGGGGATCAGCCTTCC
Sequence 4407
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATTTGCCTCCCGG
GCTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACCTGCCACC
ATGCCCGGCTAATTTTTGTAATTTTAGTAGAGACAGGGTTTCACCATGTTGCCCAGGCTG
GTTTCGAACTTCCTGACCTCAGGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATT
ACAGGCTTGAGCCCCCGCGCCCAGCCATCAAAATGCTTTTTATTTCTGCATATGTTGAAT
ACTTTTTACAATTTAAAAAATGATCTGTTTTGAAGGCAAAATTGCAAATCTTGAAATTTA
AGNAAGGGCAAAAAATGTAAAAGGGAGTCAAAAACTATAAATCAAGNTATTTTG
Sequence 4408
CCTATACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTC
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNANN
GGNAAGCNACCCTNAAANAGGNGTAGCCCCGGNNGGAACCCGGGGCCCNAAGGGCCTTCA

Table 1

AANGGNNAAAAAANAANGGGNCCCGCAANTNANANNAANTNTCNNANCNAGCTGNGTTNT
TAANNGACNCACNANCCGNGNGANCCNCCNNNAAAANNNGCCCNNGNACCTGCCCGGGNG
GNCGNTNTAAAANNANGGGANCCCCCG

Sequence 4409

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTNANAANANATGGGGTTTCGCCATGTTGGTCAGGCTGGTCTTG
AACTCCTGACCTTGTGATCTGCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTT
ANGCCACCGCACCCAGCCTATCATTTCTTAANTGGGTAACAAGAGGCAAGTCATCCAAAA
AGACAATGACACTACTGTTGTCATANAGGAATAGTAAAACCACAGAAAATGTAANNGTGC
TCCAATTCCTCTGAGTCANCATTTAAAGAGGAATTTTTAAGGGTCATCAAGGGACNTGTG
GGNTATAAANCNTGAAAACATATTGGCANTTTGAACTGGGNGGAAAAANAAAAGGAAAAN
GCCCATATATTGCCNCAAACCATT

Sequence 4410

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATCAATAAAATT
GGCTGCTTGGGCGGTTTTAGTTACCACCTTAGCCTGGTTTTCTGCTACTGTTATTTATCA
TCGTAGGTTCTGAGTTGCTCATTGTGGTTGCTCTTTGGACCAATAAAAATGGCAAGTATG
AGATGAACATGATAAAAGTATGTTTATATAACAGGAAGAAGCTGGGCGCGGTGCTCATAC
CTGTAATCCCAGCACTTTGGGAGGCTGAGTTGGGTGGATCACCGAGGTCAGGAGTTCGAG
ACCAGCCTGACCAACATGGTGAAACTAAAAATTCAAAAATTAGCTGGGGCGTGGGGTGGG
TGGCGTNGTCTGTAATCCCAGCTACTTGGGGGAGGGCTGAGGCAGGGAAGAATTCACTTG
GACCCCAAGGAGGGGGGNGG

Sequence 4411

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACNGGTGGGAAG
CAGAAGCAATGAATCAGAAAGGAGCAGAGCACCANAAGTAGACAGGAAGGGTAGGTGTCC
TCTGTGTGTAGGCAGACGAAAAACTAGNAGGAACAAGANATAAGCGTTAAGGGAGAGTGA
CCTCNGGGGCCCANGGAGGGCAGGGGTCACGGGANNAGTATTGGAGCTGCACANCCTGCT
GCTTCTGCTGATCTTAGATTCTGAAAGTTGNAGAAGAGGGGAGAGACGCANTGACTGGGG
A

Sequence 4412

CCGCGGTGGCGGCCGCCCGGGCAGGTACAGTGCAATGCTTTCATCTGATATGCCAGTGTG
GTAAGAAGGCTTTCCCTGGAGGTAGAGACTCTTTTATCAGAAGGTTGGGGGTCTCCAGAA
GGTTTTCCCCACCAGGAATTGGATTTGATGGCTGGAATTTAGAGCCTACACATTTGGGTC
TCACAATCAGGGCAGGGCAGGTAAGGCTAATGGTGCAAACTGTGTCTCTGCACAGGCAGT
CATCTAGGGGAAGGGGTGTGGTGCAGCCAGTAAAACCTGGAACCTGCAAGTGGTTCAGAA
CTTTGGTGGCCAGTAAGGGAAAAACTCCTCAAGNCATGCTACAATATTGAAAAGGTTCAA
AAAGGCACCTGACCAAAGTNGTTTGTTTTTGCCCCCCGG

Sequence 4413

CCGCGGTGGCGGCCGAGGTACAGTAGTGCACTCTTGGCTCACTGTAGCCTCGACCTCCGG
GGCTCAAGTGATCCTCCTGCCTTAGCCCCACAAGTAGTGGGACTATAGGCACACAGCACC
ATGCCCATCTAAGTTTTTGTATTTTATGTAGAGACAAGGTTTTCACCATGTTGCCCAAGG
CTTGATCTTGAGCTCCTGAGCTCAAGTGATCTGCCCACCTTGGACTCCCAAAATGCTGGG
ATTATAGGCGTAAACCACCATGCCTGGCCTTAAATCAACTTTAGAGTCAACATCTCTTAT
CACTGGAGCTTCTGGAGAAACTCCATCACGTTGGTGCTCTCTTTCCTGATGGTGTTGTGC
CCAAATAGGCTTGTTTCTCATCAAGGGTGAACTTTATTTTGCTATGGATA

Sequence 4414

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGATCTTGGCTCACTGC
AACCTCTCCCTCCCGGGTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTAGCTGGGATT
ACAGGCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCAC
CATGTTGGCCAGGCTGATCTCAAACTCCTGACCTCATGTGGTCCACCCACCTTGGCCTCC
CAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCTCAGCCTACAAGCAATTTTTTAAAA
ACTGACACCTATTACTGATAAAATTCTCTGTTTAAAATCCTATTTACTATTTTAAAGAAT
AAAGTATTAGTTTTTTTTTTAAATACAATAATTTCTGTTATTGGATAAAAATTTTAAGGG
CATTTTTTCATTGGCCTTTTGC

Sequence 4415

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGAATACCGAG
AGTGAATGCTGAAGGAATGATCCCCATTGGTGGTGACCCTCAGGTGAGACTAGGGTGCCT
GTGTTTCAGCAAAGCCTGGGCAATTGGAATGCAGGGCTCCTAAGATTCCATGACACCCCT

Table 1

ACCTTCTAATTCTGTTATTGCAACTGCAGACGGTTACCTGGCACGCTGGCCACAATCTAC
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GTTTTTGTGGTGAAGGATCCTAAAGTGCTGTGGGGGAGTGATCACATTTTTCACAACATT
TAAGTTAAAGAATTTTTTCAGTTACTGGACATCCCTCAGTTCTGATTAAACCTATTTTGG
ATTTCACCCAGGTTTTTAA

Sequence 4416

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CAGGGAGGGGAAACCGGAGATAGGGGTCTTCGGGCCCCGGGCAGACCCTCTGTGCCGCTG
CAAACCGTTGCAGCCTGAGGCTGTCAGGTCCTCCCCCAGACACCTGCGGACCCTNCCTNT
CCTGGCTTTCCCGTCTNGGTCATGGGCGAGATTCTGGGTCTGCGTAGCCCGGTGCTGGCT
TCTTTCTTGCATTTTTGGTTTTGCATTCGCGTTTTTGTGGCTCTCCAGTTTTGAGGAACT
TTACTTTTTGCAGTTTCCTGGAAGAACTGANAAAATTCTTTACCGGCTTGGATGTTGGGG
TTTGGCCCTAAANCACCCNAGAAAATATTTTTTAACCCGGGGAAACCAAACATTTTTTGG
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Sequence 4417

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ACCTCAAGTGCTCTGCCTGCCTNGGCCTCCCAAGGTGCTGGGATTACAGGCGTGAGCCAC
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TATTTCCTTNAANNCTTCTTATTGAATTNANCTTGGGTTTGGGTAACCCCTCCGGGCCCG
CTTNTTAANNAAAACCTANGTGGGGAAATTNCCCCCC

Sequence 4418

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGTTGTGCAAAGTGAGGAA
GATTACTGTGGGAGTGAANGGGAATCCCTCACCTGGTGACTCATGATGCTCGAACCATCC
GCTACCCAGATCCTGTCATCAAGGTGAACGATACTGTGCAGATTGATTTANGGACTGGCA
AAGATTAATCNACTTTATCAAATTTGATACCAGGCAAATTTGTGTATGGTGATTTGGTNG
GAGCCAACCTCGGTCGTGTTGGTGTGATCACCAACAGGGAAAGACATCCTGGTTCTTTTG
ATGTGGGTGCATGTGAAGGATGCCAATGGCAACAGCTTTTGCCACCAGGCTTTNCCAACA
TTTTTTTTTCANTTGGCAAAAGGCCAAATANAAACCCTTTGGGA

Sequence 4419

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTTTTTCANAATTGTAAAATTTTATTTTCCACACATCAATATTCTTATTAACACAGC
TTGATTGAAAGAATTCTGACCAGNGGCTGGTCATTACATGCAGNGGCTCATGCCTGTAAT
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CCTGACAAACATGGAGAAACCCCATCCCTACTAAAAATACAAAATTTAGCTGGGCCGTGG
TGGGCACATGCCTGTAATCCTAGCTACTCAAGGAGGCTTGAAGCANAATCACTTGAACCT
GGGAGGCGGGAGGTCGTGGGTGGG

Sequence 4420

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTTTTAAGAAAACA
CTGTTGGCATCTAATATATAGAAATGTATACATTTTGAAAGTGTAATGTTTGGCTTTGAA
ACTCTTCTCCCAGTTATTGAGTAGCACCAATTCAGAAGCACCCATCAGGAGTATAAGGAA
TTTTTCTAGACTTAATGTATTTATTTGCTTTAACCACCAGCCCGTAAGAAGGGTTGGATG
AATTTNGAGTAGGGAGCCGNAACCCCCAGCTTAACCCTTAGGCTTTTGGGAAGAAATCCG
AAANGGTCCATAAGTCCTCCAAATGTGCGTNGTGAAACAAGCAGCTAAAACGTGAGAAAC
CATGAAGGCTGGAGTTGACAACCTTAAGTTTNGGTCCATNGATTGGAGGGGAAATGGATA
GTGGGGTTGTGTGTTGCCGTTGGGGNTTT

Sequence 4421

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ACTATTTTATTTAACTACTTCCCCAAGGATGTGGACCTTACACTTACTTTACAGCCAGCC
TCAGAAAACTTCCTAGTGGCAACCTAAGGGCTAGAGCAGCTTGTAAGAAGTGGNTCTGGA
GGGGGGCTCTTTCCATTCTCACACGTNTGGTGCATGAACCCTTTNTCCTATCCTAAAGGC
CCTTCGGGAANAANCTCTAACTGGTGATGAGAGCAAGGTTTGGGGGCCCGCTACACTTCG
GCAGTGCAGTGTTGGGAAAGGTGAANAAACACANGTTTCTAAAGGAAACCAAGGAANTTG
TTTGAGTCTGGAGGGAATATTGGGGGGTCTGGGAC

Table 1

Sequence 4422
GATGGCCACATAGCGGTCAAAAGCCATGGCCAGCAGCACTGTGGATTCCATGCCAGATAA
GGAGTGGATGGCAAACATCTGTAGCAGACAANCATCAAACTGGATGGTAGTTGGAATTGA
ACCANAAAGNATGGGCCAGCNT
Sequence 4423
CACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTT
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GCAGTGGCATAACCACGGCTCACTGCAGCCTCAACCTCCTGGGCTCAAGTAATCCTCCCA
TCTNAGCTTCCTAANAAGCTGGGACTACAGGTGCACACCACCACATGTGGCTAATTCTTG
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TGAGCTCAAGCAATTTGCCCACTTTGGCCCCACAAGGTGCTGGGATTACCAGACATGAAG
CCATGGTTGCCNGGCCAATTTTGATTTTCAAATNCCAGATGTTTTTCTAAGGGCNCACCA
AGNTTTAATTTATTGACCCT
Sequence 4424
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GTCGGGCCCTGGAAGGAACGCTCTCGGAATTGGCCGCGGAAACCGATCTGCCCGTTGTGT
TTGTGAAACAGAGAAAGATAAGGCGGNCATTGGTCCAACCTTGAAGGCTTATCANGGAGG
GCAGACTTCAAAAGCTACTAAAAATGAACGGCCCTGAAGATCTTCCCAAGTCCTATGACT
ATGACCTTATCATCATTGGAGGTGGCTCANGAGGTCTGGCAGCTTGCTTAAGGAGGCAGC
CCAATATGGCAAGGAAGGTGATGGGTCCTTGGACTTTGTTNACTCCCCACCCCTTCTTGG
GAACTAGATTGGGGGTCTTTGG
Sequence 4425
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TGCAGTTATGATGTGCCTCCAATTGTAATTTGGGGTTGACCCTTCAATGCATTAAATCTC
CCCAGGGCTTATCAAACTGGGAAGAGAATAAGTCTTACAATTTNGAAACTTCATTAAAAT
ATCCTCANTTTTATTATTTAAAACAGGAATGGATTA
Sequence 4426
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ACCCAGATTCTCCAAATATTAACATCTTATCACATTATTTAACCCTCCTTTTGTGTGTGT
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TGCCCCTTTATTCCTAAA
Sequence 4427
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GATCCGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCCATCCGGC
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GAACTCACAGCCTAGTTTGAGAGATAAACAAATGAACATGAAATTAT
Sequence 4428
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CAGCCAGTTCTCAAGTCCCCTTTAATTTTTACTTTTTATTGGGTTCCCTTGGGTCCCTCC
TGCACATGCAGGTAACTTCCCTATCAGCCANANATATGTGGAGAGCTTATCGTAN
Sequence 4429
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Table 1

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Sequence 4430
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ATCTTATGTAAACTATAGATAATACCTACTCACCTCAAGGGTGTATCAAGGGTTTATGTA
AGCTAAATTTGTAGAAAGCAGTTAGCACAGTGCCAGGAAGGATCCAAGAAGAAATGGTAC
GCGGGCATTGAAAAGAAAAATACTCAACTAATTATTGAGTGCCCACTGTGTATAAAATGT
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CCGTCCTG
Sequence 4431
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AATGACAAGATATGTCTACTATATNTTTTAAGAATTTAAAGTTAATATATTAAAACTAGA
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CAACCTTGTGAACACACTAAAAAATATTGAATTGCCCACTTTAAAGAGGATAAATTTTGG
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Sequence 4432
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ATTGG
Sequence 4433
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TCCCTCGGGCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACACCCGGCTGGAAGT
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AGCTCTGTTTATTTGAATACAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGGC
GGCCGCCCGGGCAGGTACTT
Sequence 4434
ACGCGGTTGGCGGCCGCCCGGGCAGGTACGCGGGGGAGTTGGCTATCCCTAATGTNATCA
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GNAAAATTATT
Sequence 4435
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CAGGGGCCCCCCGCG
Sequence 4436
CCGCGGTGGCGGCCGAGGTACTGGGATTACAGGCGTGAGCCACCACGCCCTGCCAAAAGG
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Table 1

TTGAAGTGTTGTCTTCTCTTATTCTACATAACGACGACGAACCATTTCTTAGTTGGATTG
TGACGTTTGACAAAAAGTGTATTTTATACAACAACAGTGATGACCAGCTCANTGGTTGGA
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CACTGTTTGGTGGTCTGCTCCTGGTCTGATCCGCTACAGCTTTCTGAATCATAGTTAAAA
CCAATACATCTTGAGGAAGTATGCTCAGNAAATNTNATGAGGTGCACNNGAAAACTGCNG
Sequence 4437
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTNCACAAAT
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TAGANCATAAACAAAAATNTCAATATGCAATATTCAAANTTACAAGAAAATAAGCACAAA
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CACGAATCTAAATTTGNGCAAAAAAATTGTTTTCCCACNTANNAATTTAATAAAAGTTTA
CCCTNNGGGCCCGGNATNTTANAAAACTATATGGGAANCCCCCCCGGGGNNCTTGCAATG
GGAAAATTTCCNAANANTCTAAANNCTTTAAATTCCNAAATAANCCGNACTAAACCCCTA
NGNAAGGGGGGGGGGGG
Sequence 4438
CCGGGCAGGTACCNCGGGGAACTACCTACCTAAGCGATGAAATCCAAAGGTGAATCTTTT
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CAA
Sequence 4439
CCGCGGTGGCGGCCGAGGTACAAGCCCAAGGGAGATTACAGGGAACTCTTGCAGCAGACA
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AAGCTTGCCAACAGAAAATGGAAGGAAAAAAGATGGCAGGTGACCCGGACCAGGACAAAG
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Sequence 4440
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Sequence 4441
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CCTCNTGNCTTTGAGGAT
Sequence 4442
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CATCAAGGATGCACTGTGCAAGGATGGCAGATTTCTTTCCTTTCTGGAGAATGATGATTG
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Sequence 4443
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GACCACGCTCAGGTGTAACTTCACCTGGGTTCGAGGAGACCGTGTTGGGTGCCAAAGATG
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Table 1

Sequence 4444
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NCTCCTTTNGNTGGNCTCCAAAAAACCANCNCNTTTTAAGTAAATGGGGGGGTNTTAATT
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AACCAAAAAANCCNTTTTTGGGGGGNAAAAACCTTTGGGGGGNAAAAAGGGATTTGGNCC
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GGCCNCGTTTTTTTTTTTAANANNAAAAAAAGGGGG
Sequence 4445
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GGAACCNAACCCTTTGNGGGGAACCCCAAAAAANCTTTTTTTTTTTTTNGNTCTNANCCCC
CCATANNAAAAACCCATTTAAAAAAAAAAAAAAATTTTTTTGGGGCNC
Sequence 4446
CGACTCACTTTATAAGGGGGNCCGGAGATTNTGGGGTAGGGCGTACGCCACTCCGCCGGG
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GTT
Sequence 4447
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AAATTNAATTTTNTCAAAAGGAAAACCAANTTAAAAANTTNCCCCCTNNANCCAAAAANG
NGTTTTTNGGTTTTTTCNAAAAAAAAAAAAAACCCAAAAATTGGGTTNTTAAATTTAACC
CTTTTTNAACCNTTNCANTTTNTTTTTCCAA
Sequence 4448
GNCCCTNCCCCACNCCGNCNGGGNTGGGGNCCGGGNCNCCGNCNCNATNCCTTTGGGGNG

Table 1

660/863

NTNCCAATNCCGGAAATGGGAAAGNCNCCTNCCGNCNCCCNTNGGTNGNCNCCTGGGGGT
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AAAAAAAAGGGCCTTTTGGGTTT
Sequence 4449
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AGGGAAAATTGNAAAACCTTTAACCCCCTTCCAACCCTTAAGGGTTTAAGGNTTTTNCCC
AACCCGGGTTNGGGAAATTGGGNTTNCCCTTTGGGGAANCCCAAAGGGNAAATTTGGGGG
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NAAAGGGGAAAAAAAATTTTTTTTTTTTAAAAAAAAGGGGCCCCCTTTTTTTTTTTCCC
CAAATTTTAAAATTTTT
Sequence 4450
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TTTCCCCCAAATTTCCCAAACCCGGGTTGGGGGGGTTGGGGCCTTTTCCCTTTCCNTTTT
TTTTCCCCCTTGGG
Sequence 4451
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GNGTCCTTACNTNANAAGNCNCCCCACCTGGGTNTNANAATTAATTAAGGNAACCGNCCA
GGNACCCCANAATNTTGGTNTTANGNGGGAAAACCANGNGGTTCNCCANAAAATTTTGGG
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Table 1

GNAAAATTGGAAGGGGCCTTAATTTTGGAAAACCAAAAGGTTAAAAGGGGGGCCTTTATT
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TTCCAAAATTTTTAANGNAACCAAAANGGGGCCTTNCTTTAAAAAAAGGAAGGNCCCAAT
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GGCCCAAGGGGGGAAAGGTTTTT
Sequence 4452
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ACCAACAATGTGGATTTGGAGAACACTAAAAAGAAAATGGAAATATATCAAAAAGAAAAC
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TCCGACCTCCCTGTTGCTCTGCTCCTGGCGCAGCATAAAGACAGAT
Sequence 4453
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GGGCTCTGAACGTGAAGTGGAAGGAACACAAAACATTNTGTTGATTAGGACCAATAAAAA
AACATGGGAAATTGCTTGGGACATGATATTTAACATTTATTAATTTTTGTGGGAACCAGT
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C
Sequence 4454
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ACCCCNAAAAAA
Sequence 4455
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CCTTTTTAAAAAAAAANCCCCTTTTTCCCCTTTTTAAAAGGGNNAAAAAAAAAAAAANTT
TTTNTTTNTTTTNTTTTNAAAAATTTTTTTTTTNCCCCNTTTTTCCCCCCAAAAAAAAAA
AAAAAACCCCCCTTTTTTTTTTTAAAAAGGNNNTTTTTTTTTTTGGGGGGGGGGGNNCCC
CCCCCCCCCNTTNNCCCCCGTTTTNTTTTNTTTTTNTTTTNTTTTNGCCCNTTTTTTTTT
TTNCCCCCTTTTTGGGGGGTTTNTNCCCCCCAAAANGGGGCNAAAAAAGGGGGGGGGGGG

Table 1

AAAAAANCCCCCCCCCCNAAAAATTTTNTTTTTTCCCCNTTTTTTTTTTTNAAAAAGGGGA
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AAAAAAAAAAAAAAAAATTTTTNCCCCNTTTTTTTTGGGGGGGGGGCCCCCNAAAACCCC
CCCCCCCCCCCAAAAAG
Sequence 4456
AATTACGACTCACCTTATNAGGGGGNCCGAAAATTTGGGGGAAGCCTTTCCCACCCGGCC
GGGGNTGGGGCCNGGGCCNCCGGAAGGGTTAACCNAAAGGGGCCTTAAAAGGCCNATTTT
TTTTAAAACCNTTTTTAATNACCCTGGGGGAAAAAAAAAAAAAAAAATTCAANAAACCCAA
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Sequence 4457
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GGGGGCCCCTCCCGGGAAAGGGNGGGTTTA
Sequence 4458
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NTTCCCTTCCCCCCCCAAAAAGCGCCNTTGTGGAAAAGATTTGGCCAAAGACTNGGNGGTT
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GTGATCCACCTGCCTCAGCCTCCCAAAGNGCTGGGATTACANAAGTGAGTCACCACACCT
GGCCTCC
Sequence 4459
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AAAATTTTNCCT
Sequence 4460
TCGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGGGTAAACA

Table 1

GGAGGATCCTTGCTCTCACGGAGCTTACATTCTAGCAGGAGGACAATATTAATGTTTATA
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GGGCAGAGGGAACCTTATAGACCCTAAGGTGGGAAGGTTCAAAGAACTGAAAGAGAGCTA
GAACAGCTGGAGCCGTTCTCCGGTGTAAAGAGGAGTCAAAGAGATAAGATTAAAGATGTG
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Sequence 4461

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Sequence 4462

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CCAATTTNTTTGGAAAGTTAAAANACAACCAAGGNAATTAACCCAGGGCAAGGGGGGGCC
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Sequence 4463

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CCCAAAAAAAAGGGGGGCCCAAGGGGGG

Sequence 4464

GCCGTTAATACGGAACTTTCAACNTTATNAGGGGGACCGAAAATATGGGGTAAGNCCTNC
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Table 1

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TACCAAAAAGTTTTTTTTTTTGGGTTTTTTTTTAAAAAAAAAAAAAAATTTTTAAAATTG
GNGTTTTTTAAGGANAAAAAAAANTTTTTAANAAGGCAAAAAAAAAAAAAATTTAANAAC
CCCGCCAAAAATTTGGGGGGAAAAAAAAAAACCCAAAAAAAAAAAATTCCNTNAAAAATT
TTT

Sequence 4465

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AANCCCAAACCNTTTTTTTTTTTTTTCCAACCCAATTNGGGGGGGGAANAAAAATTAANAAT
AAATTTTTGGGGGNTTGGGGGGTTTTTTTAAAAAAGGGGGGTTTTTNTTAAACCAAAAAA
ATTNTTACCCCCCTTTTTTTTGGGAAAAAGTTAAAGACAAAANTTTTTTTNCNAACGGGT
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ANGGNAAACCCAAAGGGNAAATTTTTTGGGGAAAGGGGGGGTTCCCNTTTCCAACAAAAA
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AAANAAATTTAATTTNGGGAAAAAAGGCCCAAATTTNAAANANTTTTTTGGGTTTTTTAA
GGGGAAAAAATTTC

Sequence 4466

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TTGGCNCCTTTTAACCAAGGTTGGGGNAATTCCAATTTTCCTTAAGNTTANGNGGAAAAA
GGGGAACCAAAATTAAAGGNAATTTTTTTTTTTTTAATTCAAAAAAAAAATTGGTTGGTTC
CCAATTGGCCCCAAGGTTNAAAGGAAAGGNAATTGGGTTTAATTTAATTTTCCTTTTTTT
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CCCCAANTTAATTTAAGGGCNTTTAAATTAAAAAGGGTTCCTTCNAAAAAATTTTTTTTN
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CTTGGGTTTTNCCAATTTTTGGTTGGGGTTAATTGGCCCTTTTCCAAATTCCAACCCCCT
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CCCCCCCTTTTTTGGGTTGGGCCTTTAAAAAGGGGGGGTTAAAAAAAAGGGAATTTTTTT
AAAAAATTTTTAAAAAAAAATTTAAAAAATTTTTTTTTTTGGGGGGGCCCCCTTTCNNTT
NCNAATTTAAGGGTTTNTTTTTTCCNTTCCTTTTCCTTCCTTTTTTTTNAAAAAAAAGGG
AAAG

Sequence 4467

GCGCGCGTAATACGAACTCACTTATAGGGAGACCGAAATATGGNGTAGNCCTNCCACNCC
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TNGNGNAATTANTNTNTCAAANAGCGNGTGGCCTTGGGTAAAAAAATGGTCGTCCAAANA
NAAAACCAATNGGTTCCAACNTTAACCTTTTAAGNAACCAATTTAATTACTNTTGGTNCN
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Table 1

TTNCTTTCCCCATTTTTTTTCAAAAGCCCAANNAAATTGGTTGGTTNGGGGCCCCNTCCA
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CCNCNTTCCGGGGGCCTTNGNCCAAGGCCTCCANCCAAACCAAAAAAAATTNCCTTTCCN
CNCCCCNTCCCTTNGGTATTTTTTTCCTTTCCCCCCCCCGGGCCGGTTTAACCCCCTTCC
CGGGGGCCACCCGGCTTTTCCTTTAAANGNAAAAACCCTTTAAAGNGTTTGGGGGGGAAN
TACCCCNCCCNCCCGGGGGGGGGCCCTTTGGGCCAAAGGGGGGAAAAAATTTTCCCGNNN
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GAAAACACCCTTCCNGNGAAGGGGGGGGG
Sequence 4468
CGCCGTTAATTACCGGAACCTTTACAACTTTATTTAAAGGGGNGACCGGAAAATTATGGN
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CCAAGNGNTTNANCCACGTGGGCAAAANAATTAACCTTAACCTNGGGGNAAANACCACAN
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GNGCTACTCCAGCCCGGCCCAAAGAGTCCGNGAGTCCAAGNGTCNAAGNCTCNAAGTCCC
CAACCAAAAAAAAAAAAAGGGNGGAANAAGGGGGGGGCCCCCAAANTGAAAGGGGNAAAAG
NTTTGGGCCTTTANTGNAACCCCNTTGAACCCGCCCTTAAGGGGGCCAACCCCCAAAGNG
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CCAATGGGGAANGAAAGNTTTTCCCAACCTTTGGGGTNGGNAAGGTAAGNNCCTTCCGTA
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CNTTNANCCAANTTTTACCNATTTTTNTTAACCCCCCCGGCCCAATTTTTTTTCNAANCC
AAAGTNAAACCCANNCCAAAGTGGGCCCTTTTTTGGGGGGGGGGGGGGAAAGGGGGGNTTT
TAAAAAAGNNTTTAANANCCCCTTTTTNGGCTTTTCCCCCCCAAAGGNAAACCAAATTTA
AAAAAAGGTTTTTGGGGCCCCAAAAAGNNTTNAAGGTTCNCCAATGGTTNCCAAAGTTGG
NAAATNTTTCTGAAAAACCCCAAGACCTTTTNCCAAANGTTGGCCCCCCTNAATTTAAA
Sequence 4469
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TNTCTNTNTNTNTNTNTATNTNTCTNTNTNTNTNTNTATNTNTNGGGCTNANAATTAAAA
TATNTTAAAACCTTTTANANANTNATCCCCANCCAACCAAGATANAAGANAAANANTNGG
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AAAGNTTCCANGNCCANANTTAANTTTTAACCCCAACCAAGGTTTTTGNGGGGGNAACCC
ANCCAAAAAAATTTANTTGGGGGGAAAAATTCCTTTTTAACCCTTAAATTGGNTTTTTTG
GNCCAAAAAAGGGGGGGACCCCCAAANANATNATANGGGGGCANCNCCNTTAAAAGGNAA
AAAAATTTATAAAAAAGGGGGGGAAGANAAAAAGGNGTTNGGCCNAACCNAACCTTTCNA
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NTTTTNTTAAAAAAAAACCNTTTTNAACCCTTNAAATTNTCTTNTNCCCTTAANTTGGGA
AATNCCCCCCCACGACNAAAAGNAGCCCAATTTTTCCAAAANTTTTTTTNATTTNTTTTT
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GNGGGGNAAATGTGGNTTTCAAAAAAAAAAAAAAATAAAAAAAANTTTATTGTGGGGAAA
NNNGGGGGGGGGGAAAAAAA
Sequence 4470
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AAGNGNCCTTGGTTAATTAACCANGNCGCCAACCAAGGGCGCCTTCNTTCTCCCGCAATT
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NTTGGTTAAAATTTTCCCCTTTGGGAAAACCAATTGGTTCCAAGGGGCCAATTAACCAAT
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CTTTTGGTTCCNTNCTTTTAAAAAAANTNCTTNAAGGNAAAAAATTGGGAATTNGGTTTA
AAAAAAGGGTTTTTTTTTTGGGAAAAAATTAAAAAAGGNTTNTTGGGAAACCTTTAAATT
NCCTTTTTTAAACCTTTTTTNCCAATTTGGGCCCAAAAAAAGGGNAAAAAGGGGGGGGGG
AAACCCAAACCCAAATTTAAATTTGGNAAAGGNAAAATTTTTCCAATTTTCCAAATTNCC
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Table 1

AAAAAAGGGTTGGGNTTNAAAAAATTTTTTTTNGGGAAATTTTTAAATTTAAAAAAGGGA
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AAAAAATTGGGGTTTTTTTTTAAATTTGGGGGGGGGGGGCCCCAAACCCGGGTTTTTTTTG
GGGTTNAAAAA
Sequence 4471
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TTANCCAATNCCGNGNAAGNCCGNTNGGCCCAAGNGNCCTTGNCCGNTNTNCNCCGNTNC
NCCTTTTAACCGGAAATTGNAAAAAGNAACNCCAACCGNAATTGGCCANGNTTTTTTCNC
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AGNGGGGGGGGNAAAGGCCCCAAAACCCCCCAAGGAAAAAAATTGGGGGGCCTTTTTTCC
TTCCTTAAAATTCCCCTTGGGGGGGGAATTAACCCCCAAAATTTAAAAGGCCCCAACCCA
NAGGAAAGGGGGTTTGGGGCCCAATTTGGGTTGGGTTNGGAAAAAGTTTTTGGGCCAANG
GGGGAAAAACCCTTNCAAATTAAAGGCCCTTGGGGGGAAAAACCTTTGGAAANGGGGGAA
AGGGGGGGGGGGGTTTGGGAAACCTTTGGGGGGAAAGGAAAGGNGGGGGTTTGGTAAGGG
GGNTTCCAAACCAAACCCTTGGGGGGCCCNANGGNTTTAAGGNAAAAGGTCCNCCCCCAA
TTTAACCCAAAGGGCCCANGGNTTTTTNCCGGGGGGCCCCCTTTGGGTTNTTCCCCCTTT
TTTTTNCCAAAAGGGGGTCCCTTGGGNAACCCTTTCCCAAAANAAAAAAAGGGGGGCCCN
TTTGGGAAATGTGGGGAAAGGNGGGCCCTTTTTTTTTTAAAGGGAAATTTTTTCCCCCAAA
GGGGGNGGGGGTAAAGGNGGGGGGGCCCCCCCGGGAAAGGGCCCTTTTTTGGGCCCAAAA
AAAAAATTTAATTTTGGGAAAGGGGGGAAAGGGAAACCNTTTTTTAATTTTTTCCCCCCA
AAG
Sequence 4472
GCCCCCGCGGTGGCGNCGAGGACTTTATTTTTTTTTTTTTTTTTTTCTTTATATATAAT
ATTCAACTTTATTTCAAATATACCAATTTTAAAATTTATCCAATGATTAGCCCCCATNTT
ACCGAATCTNCCTTTNTNCCTCGGGAAGGTTGGNAACCAATTGAACCCCCCAACCCAANC
CAAAAANAAATTTTTTCCCAAGAAATTTNAACCCGGGGGGGGAAANTTNNTCCCCCTCTC
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GGGGGGNCCCCTTTTAAANCCCNTTTTTTTTTANCNAAAACCCNTTTTNNCCAAAAAAAAN
AAGGGGGNTTNCCCNTTTTTCCCNTTTGGGGGCCCCAAAAGGGGNCCCCTNTNGGGGNCC
CCCCCCNTTNGGGNNCCCAAAACCCCTTTNGGGGTGTTGGGAAAAAAAAAAGGGGGGGGN
CCCCTTTTGGGGCCCCCAAAAANACCCCCCAAATTTTTAAAGAAAAAAAATTTNGCCCGG
TTNGGGGGGTCNNCCCTTTTATCCTTTTTTTTTTACCCAAAACCCCTTTTTTTTNCCCTTT
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AGGGGGGGGGGGGGGTTTTCCCCCCCCCCAAACCCCTTTTNTTTGTTGGGGGGNCCTTTTTT
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NGCCCCCAAATTTNCCCAAAATTNGAAAAAAAAAAATTTTTTNNCCCCCCCCTTNGGGGG
GGGGGGGAAAAAAATTTGGGGNAAACCCCTTTTNCCCCCCCCCCCCCGTTTGGGGNCCCN
AAATTTNAAACCCCTTTTTTTGGGGNTNATTNGGGGGNTGGGGGGGNCCCCTTTNGGGNC
CCTTTTTTTGGGGGGG
Sequence 4473
TAATACCGGAACNTTACACNTGATNAGGGAGACCGGAAAATATGGGGTAAGCNCCTNCCC
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TNTNTNTNTNTNTNTATCTNTNTCTATNTCTNTNGGGCGNTNAATTGNNAACNCCAAACG
TNTNTTGCGNCTCCACCCACACTTTTANTTATGCCTAGGNGGCCTTCNCCANAAGANANA
NANAGANAAAATTCCACGNTNCCGNAAGTCCCCANGTTTTTTTGGGGATNTGNCNCNGNT
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TCCTTGGGTTGGGGGGGGTTCCTTCCCCGGAATTCCCAAAACCGGCCCTTTTCNAACAAA
AGGCCCTTTTTTAAAANTAANTAATTGGNCCAAGGGGGCCANAACCAACCCCTTTCTANT
TGGGAATTCCAAGGGGGGTTAAAAAAATTTTTTTTTTGNAAACCCGCTTAANGGTGGAAA
TTGGGGGGAAAAANTGGGNCCCANCCGGGGGNCCCCNAATTTTTTTTAAACCAACCCTTC
CCAATTGGNGGGTTTTNCCGGCCCAATTNTTTTTTTGGGGAAAAAAAAAAAAGGCCCTTT
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GGNAAGNNTTGGGNTTGGGCCCNTTCCAATTTCCCAAAGGNAAAAGGNAAACCCANGGGN
AATTTTTTTTTTTTTTTACCAAAAANCCAAAAGNGCCCNANTTNCNTTTTTGGGNTNAAAA
ATTTTTTTNAAAACNCCCTTANAAAAAAAAAAATTNCCACAAGGNAAATTNATTTAAAAA

Table 1

TTTTTCCCAATTNTTGGGGGGGGAAACCCCCCTTNGTTTTTTTAAAAAACCAAAAATTTA
GGNTTAAAAAAA
Sequence 4474
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CGGGGGTTGGGNCCGGGNCGCCGNAGNGCTNANCCAAANAAGGNAAGNTNAAGNCCTTGG
CNCCCCCCTTTTCTNCCAAGGGGGGCCCAGANAATTGCAATTGGCCTTTTTCGGNAAGAA
AAAACCAATTAACCTTTTTNGGGGCNCCAATTTTAACCCCCCCCCCAAGNCCTTTTTNGN
AAGNGGNAAAAAAAATTGGGGGGCCTTTTGGGGAATTGGAATTTTAATNTTTNTAATCGG
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CTTTCTTTTCCAACCCTTGGNACCCCCCTTGGNCCCCCCCCCAACCTTTTGGGCCCCANT
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TTTTTTTTTTTCCCAAGGCCCGGGTTTTTAAAAAATTGGGGTTAAAAANAANGNGGGGGG
GGGCCCANGGTCCCAAAGTTTTGGNCNCCAAAAAAAAAAAAATTTAATTTAAAAAATTTN
CAAAGGGAAAGGNNAATTTAAAAAAAAGGGCCCTTTTTTAAGGGGGGGTTTCCAAAAANA
AAGNNTTTTTNCCAATTTAAAGGNAAAAGNTTTTTTCCCCCCCCAAATTTGGGAAAAAAA
CCCTTAAATTTAATTTGGGGAAACCTTTGGGGGCCCCCCCAACCCAACCCAAAGGGGGGA
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TNGGNAAGGGAAATTTTTTTTTTGGGCCTTTNTTGGNAAGGCCCCAAGNGGGGAAATTTT
TAAAGGCAATTTAAAAAGGGGGGCCTTTGGNTTGTTCCTTTTTTTAAAAAAAATTNGGGT
TCCCTTTGGGAAAAAA
Sequence 4475
CCGCGGTGGCGGCCGAGGTACATCTAGCCTGAGGCAACCTCCACGGAAGAGCCAGGGAAA
TAAATGCTCTGCCTTCCAGTCCTGTGGGGACTGTTCAGTGTGTTATGGAAGGGGTCCCGA
ACATCCCGGGCCATGGACCAGTGAGCTGCGGGCGAACTAGCACTCACTGCCTGAGTATTA
CTGCCTGAGCTTCGCCTCCTGTCAGATCAGTGGCGGCATCAGATTCTCACAAAAGTGCAA
ACCCTATTGTGAACTGTGCATGTGCAGGAGGGATCTAGGTTGCACGCTCCTTATGAGAAT
ATAACTAATGCTTGATGATTTGAGGTGTAACAGTTTCATCCCCAAACAATCCCCCCACCG
CCTCACCTACTCAATCTCTGTAGCATTCCACAGTCTTTATAGCAACAGAATACCCCC
Sequence 4476
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AAAANCNCCTTGGGNGNAAGGGNCCGGGNAAGNGGTNTGGNCCAGNTTGGAAACNCCAAA
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AAAACCAAAAAATTAAAAAATTAAAAATTAAANAATTAAAAAATTTAAAAATTAAAAAAT
TAAANAATTTATTTTTAATTNGGGAAATTGGGGTTTGGNAAAAAGGGGGGGAAATTTGGG
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CCTTGGGAAAAACCAACCCCCTTGGGNTAAAGGTTGCCCNCNAAGGACCTTTTTTTTCCN
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AAAGGGCCCCAAGGGGGGGAAATTTGGGTTTGGGCCCCAACCCAAAAAAGGGGGGGCCCA
AAAAATTTTTTGGGNAAAAAAAATTTGGGCCCCCCCCCAATTTAAAAATTTTTAAAGGNT
TTTTTTNCCTTTCNAAGGGCCCTTTTTTTTGGGGAAAAAATTTAANCCAANCCTTTAATT
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GGGGAAAAAAAAAAATTTTTTTTTNAAAGTNAAAAAAGGGGGGAAAAAAGGGCCCTTTAAC
CCTTTAAAAAAAAAAAAGGNAATTNCCTTAAAAAATTTTTTTTGGGAAAAAAAAAAAAAC
CTTTANCCCAAAAAAAAAAGGGCCCAA
Sequence 4477
AGGTACCAGCTGAAGCACTTCAGCGTGAACGCCACAGAAGTGGCTCCACGGCTTGTAACC
TTAGAAATCCCCANAAATCTCCTTGAACAGACCTGGGACAGAATGTGCAATGTCCT
Sequence 4478
ATACGACTACTATAGGGNNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGTTCAGC
CTGTGATCACTTCATTCCNNTCAATTTATGGGGCCGAGACTTGTTACAACAATGGCATGC
AGAGATTACTATCCCAGCCTCCCTATACAGCCCCAGGAATAAAAAAATCATGACTAAAAT
GGGATAGCTCCCTAAAAGGGACTAGGAAAGAAGTCCCAATTGAGGCTGAAAAAAATCAAA
AAAGAAAAGGAATAGGGCATCCTTTTTAGGAGCGGTCACTGTAGAGCCTCCAAAACCCAT
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Table 1

TGAGCCCCTTNCATTTTTC
Sequence 4479
AGGTACACTGGAGGCTGGAGCCTGCAGATGGCATGGCTCTGCGGCTCACCTTGCTGCAGT
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AGCTCTGAGTTTATCTTGGGACCTCAAGAGGAGAGGATCACCCAACTCACAGCAATCAAA
CTCCAAATGGTGCTATAAACTGAACCACACATGGACACGTCAGTCTTCCGAGGACCCTTA
GATCAACCCCAGGAGGAGCCCTAGCTGCTGTTCCCCATTCNGACGCCCCTTTCCAGCAGG
AAGTAGCCAGAAGACATCGTCNCCCAAACCTCTAACAGCAGTTAGTGCGGCATCTCCACA
GGGGGAATGTTGTAGGAGTTATTGATAAATTA
Sequence 4480
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AAAATGGTGCCTCGGGCAGGTCCTGTNTCCANAAGAGGATGTTCATCCAGGGTCTGGGGC
TAAGGTCATCTTANCACAGCCCAGCTGCCANCTTNCCTNCTCTGCCGNTTCCCTTGAACA
CAAGCCAGCTTCCCTTATCTAACCCTTCTTGGCCCTGTTAAAAA
Sequence 4481
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAAAGAAAATGAAACAGGCAAA
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AAAATAGGCTGGGCGTGGCGGCTCAGGCCTGTAATCCCAGCACCTCGGGAGGCCGAGGTG
GGTGGATCACAAGGTCAGGAGATCGAGACCATCCCGGCCAACACAGAAAA.CCCCGTCTC
CACTAAAAATACAAATAAAAATAAAAAANATNNTTAANAAGTACCTGCCCG
Sequence 4482
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ATAAGAGAAAATATTAGTTTAAAAATAGAACTTATAGTCGATTTAAAAAAGCAAGACCAA
ACTCTTAGCTATGCACAAGAAAGTTACTTTACNCATTCACAAATNTTAAAGGATGAGAAA
ACATGGGTTATGAAAATATGAACCGAAATGAAGCCTATAGTTGCCTGGGCCAAATTTTNC
AGACCAAAATNNGACCCTTCNGAAAAAGACTTTTTAGGGACCTTTAACAGGGGGNATTTT
TCCATTNNGGGATTAAAAAGTTTTCCCACTTTTTTTTTTTAAA
Sequence 4483
AGGTACTAAGTTGCCATTTAAGAACCTCTTCAGGTTCCCCGNCTCCTTGAGCTATGAAAG
TTTTCATGAACACTTCAGTTTTAATGGCATGCCAANCATTNTTGTTCCATTGAGCAACTG
CAACAGTTTTAAAAA
Sequence 4484
NCGCGGTGGCGGCCGCCCGGGCAGGTACNGCGGGGGGGCATCACGGACCTACCAATATGT
GATGTCACCCCTGGTGGCCCAGCTGTGTCATGGAGAAACTCCAGCTGGGCCCAGAGATTC
TGCAGCGGGAAAATCCAAGGTCTTATTTTTATGCCANGGNCTTGAGTTGGATTTTNGGCC
CAGTTCAGGNAAAGCTTTCTGNNCGGTTTNNGCCTGGNCCACNGATTATCATACCTAATA
TTNNGCTTTTGNTCCATTGNTGGTAANGGNNACCAGACATTATTTCTANAGNTTNCTTTT
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TTNCGTAGNGAACAAGTANACCAATTGTTNNGGNAATTGGGGTTGAGNAAGCCACCCCTT
TNTACNTAATTAACCGGAACCTTTNAACAAGNGNNACCANGTCCATAAATTGGGGNGGGC
AAATTTTCCAANTGGGTNCCTNGTTTTGNGNNAGGNCCNTANTNAANAAAACCCCCCCCA
A
Sequence 4485
CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGACATACACTATTT
TTCTTAAGAATTCTATTCTCTATGTCTCTATGTAGGAGAGGAAAATGTTTCTTTTCTTAC
CCATCAGTTCGTGGCTGAGATCCCTATAACAAAAGACAGATTGACAANGAGAAAAGCATA
TAAATTTATTTTAATGTAGGTTTTAAGTGACCCAGGAGCCTTCAGAAATGAAGACCCAAA
GAAGCAGGGAAATTGGTCTATTTTTATGCTTAGGTCTGACGAAGACCAGAGAGTTATGGG
GAAGTGTGATTGGACAATGGGAATATGATCTAATGGTAATAAATTGGGGAAAACTTAGCA
ACGCCTGTTTGTTCACATTTCTTC
Sequence 4486
CAGGTACCACATTTGTGAATTTATGCCACAGACTNATTTACGNANTGCACTAAAATTATN
AATAGAGATAATGATTGCNGCATGGTTTAGAGTACTAAAGGACTGGANACAATCTCCATG

Table 1

GCACT
Sequence 4487
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCTNA
TATTTNGAANAGATGAGTTCTCACTATGTTGCCTAGGCTGGCCTCAAACTCCTGACCTCA
AGTGATCCTCCTGCCTCAGCCTCCCAAAACACTGGGACAAGGTCACAATATTTATCTTCT
CAAGTAAGGGGTCTGCTCTTTTTGTCTTCTTCTTCTTGACCTTGCAGCAGCATCTGAAAT
GGTTTTCCCTCCTTCCTTTCTGAAAAACTTTTCTNTNTGGAANATTCCAGGATGGCAGAC
TCCCCTGACTTAC
Sequence 4488
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCTTAATTCATTTTTTT
TCCCTTGGTATAACTTGGAACAAATTTTTTTTCCCTTGGTATAACTTGGAACAAATTTTA
TTTTTAAAAAGAAAAAAAAGGAAAATAATGGTCCACAGCTCCTACCCTCACCCCCATGAG
CCCATCCCCACCACAAGGACAAGCTTACAGTTCCTGAAGGNGAGGCCAACAGCTGCTGAG
GAGCAAGGACTCGTTCCAGCTGCTTCTAAACAAGGGGGCCAGGCCTNTGCCANAGCCTTC
TCCTTCCTGCCCTGNGTCAAGCTATCCAAGCTTCCTCCTNAACCTTTACCCTGCCCTATG
C
Sequence 4489
ATACACTTACTATAGGGCCGAATTGGANNTCCCCCGCGGTGGCGGCCGAGGTACATTCTT
TCTATGAAGATTTTTCCCGTGGGATTTCCNCCCATTTACCCAATAATTCATTCATAATAA
ACAGTTGTTGAACCTAGATAAAATACACCTCTGTCTCTTCCCATTTGCCTATAAGTTTCT
TGCCA[illegible]CATGTGATACAGCAGCTCAAAGAATGCTTGCCAAGTCACTAATA[illegible]GTCTTTGCTC
TCTCTAGTTCAGTGACTTTCCGATACTGTGTAACATTCAGGGCACTATGTGAACTTGTAA
GTGTGACCATACTGCATGTTTTATGGTGACCTGGTCCAGTACCACATCACAAAGAAACTC
AGGAGTGACAGCAGCAGGAGGCTCCATTTGAGGGATCTCAGTGACATCCTACTCGGAAGG
GACAGTCCAGAGAGCCCGAGGCCATCCACAGC
Sequence 4490
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTTGGGTCTGAAG
GGGTCACTCAAGCGCTCTGCTATCTCTGCAGCTAAAACGGGTGTCAGGTTTTCAGCTGCT
ACTAAAGATAATGAGCATAAGCGTTCACTGACCAAGACTCCAGCCAGAAAGTCTGCACAT
GTGACCGTGTCTGGGGGCACCCCAAAAGGCGAGGCTGTGCTTGGGACACACAAATTAAAG
ACCATCACGGGGAATTCTGCTGCTGTTATTACCCCATTCAAGTTGACAACTGAGGCAACG
CAGACTCCAGTCTCCAATAAGAAACCAGTGTTTGATCTTAAAGCAAGTTTGTCTCGTCCC
CTCAACTATGAACCACACAAAGGAAAGCTAAAACCATGGGGGCAATCTAAAGAAAATAAT
TATCTAAATCAACAT
Sequence 4491
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGATGCAACATGTTGGG
TAGCCAATCTGCAGACAGACACTGGCAACATTGCGGACACCCTGGGGGAGGGAAGATTTC
ATTTTACGTGAGATTCCCTACAGGAAAGGAAGTCCAAGTAAGGGTGAATAAAGAGAACCC
TTAGCAGACAATAATTGCCAGGTTGGCAGCTCAGTCTCAAGAGAGGCCATTTCATCTCAT
ACCAAATGCTCCTGGCAGAGCAATTCAGCCCCATCAAATAAATTTTGCCCTTATTCCAAA
TCCAGGTCTTCTGTATCCATTGTTGATGGCATTTACTTCCAAAGCCCCTACCACAACAGT
GAAAAGCATAAACGACTAACGTAGCCATTGAGTTCCATGAACGAAAAATGTTCAACGATT
TCCAGATGTGAACTTCATTCACTT
Sequence 4492
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGTATGGGC
AAGTGGGAGTTAATTTATAACCAAGGATCAGGGTGGGGTTGGTGGGTGGAAAAATCACAA
AGAGAAAACATCAAGGGTAAGGGGGATTCTGGCTAAACCAACCAAACAGGATTCTTGCTG
AAGACAGGCTGGGTGATCAGACATCACCTGTGGCACGGTGGAGGCTGAGGAACCCGATCA
GATATCCAGAGTGATCAGATACCCGAGGGTGGGAGGTTCTGGCTAAACTGACTGATCAAG
GNTTTTTTGCTAAAACTGGATTTTACAAGGAAATGCACAAGA
Sequence 4493
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTTTTTTCCTGCACATCTNTAGNGGAAAGCGTAAGAAGCATAANATTAGCATAGGCC
AGCAGTAAGTCTGTNTTGGTTGCTTGCCAGTCACTTTTATCAGACTCCAAACACTGTAAA
GACTCCAGATNT
Sequence 4494
GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGAACTGTATGCAGCTGTGGCCG

Table 1

GCATCAGAGTGGAGAGCCTCTTCTACAACTATAGCATGCTTTGAAGAGTCTCGGGCAAGA
AACATTCATGCATGAGTATATGTTCTTGGAATCAATTCCTCTAAGAACAGAGAATGGTCT
TTCCCAGGGACACAAAGGGAGAAANGGGACATGGATTCTTGATCTTCCTTTACACATTTC
TCGGGAAATCTGAAATGATGCTGGATGGGACTCTACACATCCTGAGCTAAGACATACTGT
CAGTCTCACTTCTGCTGTCCCAGTCCTANAAATCCTGGGTAGAAAGTGGNTGGACCTGTG
CAAAGGAGGTTTTTAATAACTCTGCAGTNTTTTGTTGGG

Sequence 4495

CACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTTTCTTTCT
TTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCCTTCTTTCTTTCTTTCCTTCT
TTCTTTCTTTCTCTCCTTCCTTCCTTCCTTTCTTTCTTTCTTGTCTTGCCAGGCTGGAGT
GCAGTGGCACGACCTCAGCTCACTGCAGCCTCTGCCTCCCANGNTTCAGGNTGATTCTCC
TGACCTTTAGGGTGATCCCCCTCCTAGGTCTCTCAAAAGGGCCTGGGAANTACCNGGGGG
GGAAGCCCNNCTGGCNNCCCCGGGCCCTTAAANNANGCNNTNNTTTTNAAATGGGAAAGG
GTNAAAAGTTNGNATAAATTTCCAAGTGGNNCTNAACCNAACCTNNAANGGGGGNATTTA
AAAAAGGGGGANGGGGGGTTTTATNATTGAANAACNATTTTTGGCNNTTTTNTAANAAAA
AANCTTGGATTCCTAAAANGCTTNCAAATNGGGGGAAAAAAAACCANNANTTTGGAAAAA
ATGGGG

Sequence 4496

ACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGTTTACATTGACCTTTACATTTAAAG
CTGTTCATCCATGGTGCCTCCCCAAATCATAAGACCAAAGACCACCAAACGCAGGGTGGA
CTCTGCTCATTATTCTTTGACCCAAAAAGACTGGAGAAGGTATGTGCTTTAAGTGCTGCT
CTACCTGAAAAGAAATCCTTTAAATTACCTATGGAAGTGATGTCCTCAGATAATCTTAAT
GACTATTTTGGCATTTATAAATAGAAATGATTATGGACTTTGATCTGCCATACGGAGGTT
CGGAACCTGGANAACGGCTGTGATAAGTAGGTTTTGATTGAGTGAAAGCATGAGCTTGTT
CAGAGTGAGGGGCATAGTGAAAAAGGAACAGCCATGCCTCAAAATCAAATCATTTGCATT
CCCACAGCATCCTGAAT

Sequence 4497

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAAATTTACTAC
AAAATTAATAATAGTAAATGTAAAATATGTATTTATACAGCCTTTTGCAGACTTATGAAC
TATCTCAAATTCACGAATCCTATTTTTTAAATACAGTTTTAAGTTTCAACCACTTGTATC
ACCAGAATTTTGAGACTTAACTCCCATGGTTAAGAGATTTCCAAGCTGTGTTCACACCTG
TAGTCCCAGCTACACTGAAAGCTAAGGCGGGAGGACCACATGAGCCCAGGAGTTCCAGAC
TAGCCTTGCTCTATTTAAAGAGCAAGACTCCACTGCCAAAAAAAAAAGAAAAACAAAGAAG
AGAATTCCATAAATTACTTGGCTTCTTATATTCCATCTCTTCAGTGAAACAGTACCTGCC
CGGGCGGCCCGCTCTAGAACTAGTGGA

Sequence 4498

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTNCCTCTTTTAAACAGGCTGATATGGTTTGGTTCTGTGTCCCCACCCAAATCTCAT
CTCTAATTGTAATCCCCACGTGTCAAGGAAGGGACCTTGTGGGAGGTGACTGGATCATGG
GGACAGTTTCCTCCATGCTATTCTTGTGACAGTAAGTGAGTTATCACAAGATCTGATGGT
TTANAAGTATGGCACATCCCCCCCTCACTCTCTTTCTCTNTCCTGCCACCATATAANATG
NGTCTTGCTCCCCCTTTGCCTTCCACCTTGATTATAAGTTTCCTGAGGCCTCCCTAGCCA
TGTANAACCGGGAGTCAATTAAACCTCTTTT

Sequence 4499

CTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCTTTTCTTTCTGTTCTCTGAC
TTGTTTTCTATAGTCATCCCCAATTTTAATAGCCTGCTTTTTAAAAGGTAATGCCTGCGA
AATGGTTNTGTCACATTTTCTATGTTCTGTTCCTTTCCATTGCTCATTTTGCAAGTGTAT
CCTACTTGGA

Sequence 4500

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTCTGAGAAAGATCG
TGTCCTCTGTCTTGTTGGGGGTGAAGTAAAAGAAGGTTGCTTGGATCTCCTGAACCGACT
TATTGTACTGCATTCTTGCTTAAATAGTATTAACCATAAAGGAGGTCAGGTTTATAGGGT
TTGGTTTACCTATTAAACCATCATTGACTATGGAAATACTTACTAAGCAATATAGAGACA
GACAATATTATCTTTCCCCTTATATCTTTTAAGACAGCCACTCAAGTTTTAGAAGAGTAT
GATACAACATTAGAGAAAGAAAGATACAAAGGCTTTATTCATGTGTGATAGTAAAAATCA
GGATGAGTCTTAGATATACAAAAGATAAATGGGATATTTAAAATAGTTATATATGCTTTT
TTAGCAAAAATATTCA

Table 1

Sequence 4501
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT
CTTTTTTTTTTTTTTTTGAATTGACTTTTTTTTTTAAACTGTTGAGGGTTCTTTAAATAT
TCTAGATACAATCAGTTGCCAGATATGTGATTTGCAAATGTTCTTCCAGTTTGTAGCTTG
TCTTTGCATCCTCTTAACAGTCTTTAATCAGGTAAAAATTCTTAATTTNCATGATGTCCA
GTTTACTAATATTTCCTTTTATGGCTCATGCTTTTGGCATCAAAGTTGAAAAAAAACTTG
G
Sequence 4502
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTT
TTTTTTCTTTTTTTTTTGANATAAGGACTTGCTCTGTCGCCAAGGCTAGAATGCAGTGCT
GTAATCACAGCTAACTGCAGCCTCAACCTCCCAGGCTCAAGCGACCCTCCCACCTCAGTC
TCCCACGTAGCTGAGACCACAGGCATATACCATTATACCAGGCTACTTTTAAATTTTCTA
TAGAGATGTGGTCTCACTATACTGCTCAGGATGGTCTTGAACTCCTGGCCTCAGGCAAGC
CTCTCATCTTGACTTTACAAAGNGCTGGAATTACAGACTTCAGCCACTATGCCCAGGCTT
GGCTAATTTTTTAATGTATGAAATTAGCNCTTTCAGCNCTATTTGTATCTCCCTAATTTC
TTTGCTGGAAAAGGGCAGGGAAAGGGAAG
Sequence 4503
AAGGTTCATCAAANAATTTCATCAAAGTTCANGGGATGACCTCTTTTTAAAATTTTCTTA
NTATTCTATGTAACTATCACCGATCTTTTCCCCACACACTCCAAGAGCTTTTTAATATAA
TTTTCTACATAGCCATCATCACAGATAACCAATCCTCTTTTTTTCCCCACTAGANATGTG
CCTTCCGTAACCTCTGNCCTCTTCCTTTAACCTGGAATATTGCTCTTCANGCCTGTTGNG
CAAGNTAAAANCTTNATTCCTCATNATCCTGGGGTT
Sequence 4504
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTT
TTTTTTTTTTTGGCAANAAGCTTGGAGAATTAAATTGATCTTCTTAATGTTACATAATGC
TGCCTTGCAACAAGTAGTATATTTATTCTTCAAAGAATGTTAGAAATCTTTGCTAACTAA
CTAGCAAATCACGAGCGAAACCAGCAAGGTGTAAAGAAGGTCGCAAAAAGAAATGCAAAT
GGTTATAACAGTATCAATCTAAAA
Sequence 4505
CGAGGTACCTCTGGAAGTGTGGGTGAAGAAGGCAGCTAAAATAAGGAAAGCTAGTTAAAC
CTATTTAAAAGCCAGTCAGATATAATAGGTAAAATTGTATAA
Sequence 4506
CCGGGCAGGTACCACCCTNTTGCTGAAAGCACTGGTTCCCCTGTTGAAGCTTGCTAGGGA
TTACAGTGGGTTTGACTCAATTCAAGTAAGTAAGCAAACATTTAAATATTTTTCAGGNNA
ATAAAATGTNTANCGNTTCTTATNCCTGTTAAATTATTGCCCANAGTTAAAAANTACNAT
TTNTAATAATAACCTTNACCTTGGTCCTTTTGATCTTACAAAATTGTCAATTGACTAATA
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GTAATANGTCNNCGATAAGCNANATTTGNAAAGATTTTAAAGNGGAAATTGGNANAAANN
TTTTCCAAAAAAATTTGGTGNNGTATGTTAAACAATGTANACANTTTGNNAAAAGCNAAA
NCCCNCNANGNTAATTATCCCTTTNCNCNAANGANTAATGCTTATAAAAATTTTTTTCNA
TTTTAAAAACCAAATNGGGGGGNNTTAAACCNTTNTAATTTAAAA
Sequence 4507
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GTCCCGCGGTGGNTGCTGCTGCTGCCGCTGCTGCTNGGGCTCTGNAACAGCAAGGNAGCC
TGTCATTTGACATGGCNCCCACAANAANGNAAGGNGCAAATGGGANANNNTAATTGGGNG
AATNTAATTGCTGNAACGGGTTACCAGCAAAGGGTATTGCCCCTCACCANTGATNTCCTN
GGGNNGGGCCNTACTTATTTTAATNGNCTCANCNCANAAACNTTNTCNTGGGCNAANGNA
AAACCTTNTCATTCAAG
Sequence 4508
AAGGAAAAAAAAAAGTCCCGNCCGGGGTCACCTTAANANAAGTCNGGCCCGTAAGNTNTC
CTTTGGGGTTTGGGAACCTTTTTGGGGNCNAANCCCCCAACCCCCGGTGGGCCCAAGGNC
NTTTGAAATTGGGGGGTTAACCCCCCAAAAGNCCNGGCCCCCAAGGGCCGNAAACCTTTG
GGGGAAANNGAANTTGGTTTTCTTTTTGGGNGAAAAAAAAA
Sequence 4509
ACGCGGTGGCGGCCGCCCGGGCAGGTACTAAAAATACAAAAAATTGGCCAGGCATGGTGG
CACATGCCTGTAATCTCAGCTACTCAGGTAGGCTTGAGGCAAGGAGTAATCGCTTTGAAC

Table 1

CCCATNGTAAGCTGGGANGGTTGGGACATTTGANGTCCCGAANNAATTCNGCTNCNCATT
TTGCACCTNTCAAGAACTTGGNGNCCAAACAAAGTANNTTGTAAANANCNTCNCNANTGN
TAATAGATAAANNGAANNCCCATAATANANATCCAAACAATTAGANATAATTNGNTNGTT
AATTCGTTNTAATNATAAACCAAGGTTTTGGAANNTTTNCCCTTTNTCTTGGTCGAAAGG
GAACCCNAAAAACNAATTTTCCAANNGTGGTTATTNTGGTCCTTNCGACAATATTAATTT
N

Sequence 4510

CCGGGCAGGTACTGGGATTATAGGCGTGAGCCACCGCGTCTGGCCTCTAACGAGATATTT
CTAAAGGTTAGGCCCTCAGTCAAGAATTTTAAAGCTGGATCTTAGAGGTTATTNTAAAAC
TAACCTCTCCATTTTCANTAAGAATAAANNGAANAGGTGTAGTTCCCCANNAAAAAGACA
CTTGNTTNTTTGNGAACCACAGNTTTTNAANAAAAAGGC

Sequence 4511

ACGCGGTTGGCNGGCCGCCCGGGCAGGTACAATTTTAAATCTCTGATTTAGAGATGAAGA
AACTGAGGGGTAGAGAGGTTAANTAACATGCCCAAAGTTACACAGCTGATAATTGGTTAG
GCTCAGGATTTTGAAACCAN

Sequence 4512

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCTTTTTTTTTTTTTTTTTTT
GAGACAGAGTCTCAGTCTCCAGCCTGGGCGACAGTGAGACTTTGTCTCAAAAATATCTAA
ATCAGATATGGGTGAGACCCAAGGTTTAGCTTATCCTGAGGCAAAATTCCCCTCCAGCTG
TGAACCTATGAAACCAGACAAGTTATGTGCTTCCAAAATACAGTGATGGGATAGGCAGGA
TTAGGTATTCCAATTCCAAAAGTGAGAAANTGGAAGGAAGAAAGGGATGATGAGGCTGGG
TGTGATGGCTCATGCCTTTAATCCTAGCACTTTGGGAGGCTGAGGTGGGAGGATTGCTTG
AGTCCAGGAAGTTNGNGACCAGCCTGGGCAACATAGGGGAG

Sequence 4513

NCGCGGTGGCGGCCGAGGTACAAGTAATTGCTGGAACCTGGGAGGCGGAGGTTGCAGTGA
ACCAAGATTGCACCACTGCACTCCAGCCGGGGTGACAGAGTGAGACTCCGACTGAAAATA
AATAAATAAATTCNATTAAATTAAATTTAAAATAATTTATAGGGAATGGGTTGAAAGGGG
AAATGGGTNATAATGTATATTTGNGAAGCAGTATTTATTANTTTAACNTTGNAAACCANC
CATGTTATGNTNCCNCCAGGTCCTATNTNCTACNTGTGAAAAGATGNGTTGTGGTNAATT
TTTTCGCAAGACTNGTGTAANTGNTTTGTCCNCNAAAANTGTCNAANATNTTGNAANAAA
TTGGCCCNCNACTTNAAAATTTTTAAGNGTNTTTNTCCTTCNAANTNNTTTTTTGTCAAA
ACTNATCCCAGCTTTNAATGAAAAAANCTTTNNAAGTTTNGTGGNCNCATAGCAATAAGN
GGTAAGGNGGAANAAAAATTTTTTNTTAAAGNTAAATNGNGGGAAAAAGACNTTTAACCT
TTANAAAAAANGNNAAATTCCTTT

Sequence 4514

NCGCCCGGGCAGGACGCGGGGGAGTTTCACGCGCGCATGCTTTGCCCGCCATGGCCGCAN
TCAAGGAGCCTTTGGAGTTCCATGCCAAGCGGNCTTGGCTGCCCCGAGGAGGCANTATNA
AAGATCCGGGACGAGGGAGGGATTGAAGGGATAATTACCTANTTGGAAAGNCCCGANTAA
NTGGNGTTTCTCCCTTGG

Sequence 4515

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGTTTTTTTTTTTTTTTTTTGTTCATTTA
AATGTTTCAGAGATGTTAATATCCAATCAGCTTTTGTTCTGGTNCCCAACCCTTTGGTTT
TTTTTTTTTTGAAAACTAACANCCTAAATATTAAT

Sequence 4516

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTTATTGGTCATTTGCCTAGAGTCAATTTCTT
TTTTTTTTGAGACTAAGTCTTGCTCTGTTGCCTAGGCTGGAGTGCAGTGGTGCGCTCTCG
GCTCACTGCAACCTCTGCCTCCCAGATTCAAGCGATTCTCCTGTCTCAGCTTCCCAGGTA
GCTGGGACTACAGGCGCACACCACCACGCCCAGCTAATTTTTGTTTTTGTTTTTTTTAAG
TAGAGATGTGGTTTTTGCCATGTTGGCAGGGCTGGCCTTGAATTNCTGGCCTCGAGCCAT
CCTCTCACCTTGGCCTCCCGAAGTGCTGGGATTACAGATGTGAGCCACCGCACCTGGCCT
TTCTTAAACNCTTTATCCTTTTTTATTCTCTTNTTTTCATTTTTGAAATTCTTTCAGGAN
TGATGCACAGAAAAATGCTNATGTTNTAAAGTCTGATCTT

Sequence 4517

AGGTACACAGGCCGGGCACAGTGGTTCACACCTGTAATCCCAACACTTTGGGAGGCTGAG
GCGGGTGGATCGCAAGGTCAGGAGATCGAGACCATCCTGGCCAACATGGTGAAACTCTGT
CTCTACTAAAAAATACAGAAAATTAGCCAGTCATGGTGGCACGTTCCTCTAGTCCCAGCT
ACTCGGGAGGCTGAGGCAGAAGAATTACTTCAACATGGGATGTGGAGGTTGCAGTGAGCC

Table 1

GAGATCGCGCCACTGCACTCCAGCCTGGTGACAGAGCGAGACCCCATCTCAAAAAAAAAA
AAGTTGTATGTGACAGCTAACCATAATAAAAAAAAAAGAAAGAAAAAAGAGAGAAAGTTG
GGACAACACTAAATCATTAGTNATTTTGAGCCCNATTTNCTTCAAAGGCATATTGCTATT
TTTTCAACTTNGGGTTTAAATCATGNATCTTTATTGGTTT
Sequence 4518
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTATGGAGTATGTTC
TTGAGTTCTGCAAAGATTAGCATCAAACTCTCTCACAGCTGCCCTGTCTGTATTACTGAT
CAATACTCAGTTCGTTTCACATGACTAACAATTTAAAAAAACACCTTCATCTGCTGGGCC
ATTCTTTNAAAANTCAGGATTCCAAATANTCTAGAGGTCTGCTGCGAGCTCTAGACTAAA
GGCTCTTGTCAATCCTGGCTGCACATCAAGAACACTCCTGAGGTTCCAAACAAAGCATGG
ATTCCAGGTCCCACCTNGAAGCTACTGAATCCGAATCTCTGAGGGGAGGGCCCTTGCACT
GATTTAAAAACAAAAACTGGCCAGATGATCCTAATTTCACAGCCAGGGGTTGAGAACCTC
TGCTTCTAGAACATCGGGAC
Sequence 4519
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CTTGAAAACCAACAGGCCACAATCACAGTGAAAACCTCAGGTTGGCAGCCACTGGAGGAT
ATAAAATGAGTTTGGATCTCCTTCAATGCCCCATTCCCAGAGAACTGTCATTANTTGACC
TGCTGGTAGTTCCCTAAAGGACGTGCAAGGATGTTTATATTTGACTGGACACTTGAAGCT
TGCCCTGTATGAACAGCCCCCATCTTCCCATGCTTGTCAAAAATCAGAGGCAGCTAACAC
TGCGGCTTCCTGAGAGTCTCACTCTGTCACCCAGGCTGGAGAGCAATTGCACAAACACTT
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Sequence 4520
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GTTAATATATCTCTATTTCTTTAGGGTCAATCGCTGGAAATTTTTTTGTCCTTTTGGTGA
TGTCACCGNTTNTTNGTAAATTGTTCTTGATCCTTGTAGCTGTGTATTGATATCTGTGCA
TTTGAAAAAGTAGCTATTTATTCAAATCTTTACAGTTTGGCTTTGCATTGGAAAGTCATG
TGGCAGGAGCAATGATGGGGTGTGCCAGAAGCCCACGGTACCTGCCCGGGCGGCCGCTCT
AGAACTAGC
Sequence 4521
CCGGGCAGGTACCTTTTTTTTTTTTCTTTCTTTTTTTTTTTTTTTTTTTCCGTCTCCCCAA
AGCTTTATCTGTCTTGACTTTTTAAAAAAGTTTGGGGGCAGATTCTGAATTGGCTAAAAG
ACATGCATTTTTAAAACTAGCAACTCTTATTTCTTTCCTTTAAAAATNCATNGCATTTAA
ANCCCAAATCCTATTTAAAGACCTGACAGCTTGAGAAGGTCACTACTGCATTTATAG
Sequence 4522
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ATAAAAACCNAGGNGGGTTTTGTTCCNCACCGGCATAACCCTTNCCAGCTTTAACATTGC
TAGTCATCTGTAACCATACCCTNAGATTNGACTCTGAATGGCCCTTGTTGTATCCTCANC
CCCAGTNTGTGTTCTTTGGCCCGTGCCNCCCTCCTGACCTTNNACTGTCTNCCTTGGCGC
CTGCACCCTTGAAAAGGTCCCNTGGCAAGACNTCACTTGGGGNTNT
Sequence 4523
CCGGGCAGGTACCTGAACAAATCCCATCAAGGACAGATTCTCAGTCTTGAAGAGGCAGCA
CGGTAAAGGGGAAAGATCATGAGTTTTTGGGGCCAGGTTNCNTTGGATTATTGGTGGGGT
CCCCACACTTNTGGATGATGTTGGAATAACTCTTTTGANAACTTAANGCCTTTCNCATCT
TGTNAAAAATGGGAAAAATNCCTTTATTTTTTTTCAAGCAGATTTGTTCCATTAATAACC
ACCTTANAAACTGGAATTTNTNGGACCTTTAATTANTCANAACCNCTTANAATTTTNCTC
GTNACNCTGGGGNCATTCTAATTTTGGAAACNTTTCCAAGACTTTCAANTCNTTGGTCCC
CNCCCTCCTTGNTTTACNGGGGAAT
Sequence 4524
AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGTCCCGGTCAGCCTTGCGGTAAGCTTG
TGTGCTTAGAGGAACCCAGGGTAACGATGGGGCAAACTGAAAGTAAATATGCCTCTTATC
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TTACGCTATTTCAAACAATAGAACAATTCTGCCCATGGTTTCCAGAACAGGGAACTTTAG
ATCTAAAAGATTGGGAAAAAATTGGCAAAGAATTAAAACAAGCAAATAGGGAAGGTAAAA
TCATCCCACTTACAGTNTGAAATGATTGGGCCATTATTAAAGCAACTTTAGAACCATTTC
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Table 1

AGAAGAGGCAGGGGACAGAATCCCAGCAAGGAAC
Sequence 4525
NCGGCGAATTGTTTTCNNCCNNGGCCGCGGCCGCCCGGGCAGGTACTTAAATTATGCTGG
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GAACCTGGGAGGAGGAGGTTGCAGTGAGCTGAGATCGTGCCACTGCACTCCAGCCTGAGC
GACAGANCAAGACTGTCTCAAAAAAATAAAAAAGAAAAAAATAATAAAAAGGAAAACAAA
GCCTTTAGAAAAACAAAGCCTTTGAAAAAGGATGTAAAATTGAATATATAGATACAATTA
TTTTTAAAAAGTTTTATAGAAAAATATCCTGGATTGTTGATGTTGTTTTAATATATTTTA
ATCATTTTTGTATAATGTCATGTATAATATGTTATAATGAAAGTAAAAAAAAAAAGGTCT
TAGCAGAGCAGGCAGAAAAATGCCAAACTCAGTGCCTTTTA
Sequence 4526
CCGGGCAGGTACTCTTAAGGCCTGACCTCTGAAGTAATCCCAGATATCATTTTCCCCATA
TGGTATTGGGTCAAAGCACTCCCAGGGCCATCCCAGGTTGGAGGGGAGGGCAAAAAGACT
CAGAAATGGTTGGTGTTCATCTTTGGAGACTATTTACACAGTGATTGTATATTAAAAAAA
ACAGCAATTATATCTTTGAATTTGAGTAAAGTTAAAGAAATGGTATCTGTGAAACTTCGA
ATAAACAAGTGGAGCTTAAAATATTTGATTCTTGCATATTAGGTTAATGTGCTCTACGCT
AATCAGGTTGGAGAAATATTAAGCTCTGCTAGGAATTCTATTGGACTGAAGGTAAGTCAT
CCTGCCAGTAACTACCTAAGTCAAGGTGTGAACAAGCTGGAATTTCTTCCCATTCTAATT
Sequence 4527
AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATNCCTTTGANCTCTTTGNCTCA
TACTTCATTCANAATGATTTACAGAGAAAATAGAGGATATCAGATGGAACTTTACTCAAA
CTCCTCCTGCCACATTTGCACACCTTCCCTTCTCTCANTTCCTTCCCTCCTGCAAGATGT
CTNACCTTTGCCCAAGGCTNTTCCCCTTCCTATGTCCTGGATCCCACCTGCTTCCAGTTC
CTCTTTAACTTTCTACTATATCCTNTNTTTCTTCTCCAACACTACCACCCTNCTTGCCAC
AAGGTTTCTTCCCACCAGCATTTATAATACATGCTCATTCTCTACTGGNTTTATTAACAA
CCAG
Sequence 4528
AGGCCGCCCGGGCAGGTACACTTGAGGAAGCTTGGGCTCANAGGCTTTATGTTAATTCCA
ACAGTTTTTGCAACAGGAGGAGGAGAATATCTGATCCAGGAGCCCTAATCAAGACTCAGC
AGGAAGCTGGTGGCTTNCTT
Sequence 4529
CTCAGTGATCAGAAATGATTTTCTCGGATATGAACACCGTTTCTGGCTCCCCTAAAGNGC
ATCCTCCTAATGGGACCCGGTTTTACACTTTTCAAGAATTTGCTTGCACTGACAAAAGAA
TTAAATGCCTGCAGGGAACAACTTCTAGAAAAGGAAGAAGAAATCTCTGAACTTAAAGCT
GAAAGAAACAACACAAGACTATTACTGGAGCATTTGGAGTGCCTTGTGTCACGACATGAA
CGATCACTAAGAATGACGGTGGTAAAACGGCAAGCCCAGTCTCCCTCAGGAGTATNCAGT
GAAGTTGAAGTTCTCAAGGCANTGAAATCTTTTGTTTGAGCACCACAAGGCCTTGGGATG
AAAAGGTAAGGG
Sequence 4530
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CTTTAATCTNACAGGGTTGGATTNTGGTGGGAACCTCCNCTTGCTTATTTTTTTTNAGAT
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AAAAAAAAAAAAAAAAGTTCCTTAAAAGGTNTTTTATTCAACCTTTTTTGGTGCNCAAATT
TNGNCNCCANTTTTNTGAAATATNANTTCCTNTTCTTNGCCAATTAATTCTTTTTAAANA
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GGNCTTTAAAATTGGNAAANACCCCTTNGNTNNTCTTTTTTCTTCCAAAAGNTCTTCCTT
TTTTAATTTTT
Sequence 4531
GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGA
GATGGAGTTTTGCTCTTGTCGCCCAGGCTGGAGTGCAATGGTGCCATCTTGGCTCACTGA
AACCTCTGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATT
ACAGGCATGCCGCCACCACACCCGGCTAATTTTTGTATTATTAATAGAGACGGGGGTTTC
ATCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCGGGTGATCCACCCGNCTCANCCT
CCCAAAGNGCTGGGATTATAGGTGCGAGCGACCACGCCTGGCCTACAATGTCATATCATT
CTATTTTTTCAAAAGCATTCTCCCCAGAGGTTAAGCAAATGCTTTCTGCAAAAAAAGGAA

Table 1

AATGGNTGGAAACCCTTAC
Sequence 4532
AGGTACAATATTTTATTTTATGGGTGTATAATAATTGATTTTATTTTTGCCTTTTTTCTG
GATGTTTTAATAGTTGCCATTGGGGGGATTGTGTTTAGCTATCTGGATTTATCTGCAGTC
TGCCTTTCTGNAAATATTNTTCGTATAAATATCT
Sequence 4533
AGGTACTTTTTTTTTTTTTTTTTTTTTTCCTCTTTTAAACAGGCTGATATGGTTNGGTT
CTGTGTCCCCACCCAAATNTCATCTCTAATTGTAATCCCCACGTGTCAAGGAAGGGACCT
TGTGGGAGGTGACTGGATCATGGGGACAGTTCCCTCCATNCTTTTCNTGGNGANNAGATA
AANTGAGTTTTNTTNNCCAAAAAATTTTTTGATNGGTTTTAAAAAAANNTTATGGGACAA
CTATCCCCCCCCCCCTACACATANTANATTTANNCTNCTCCTNCCTTGGCCCNCCCCAAT
TAATTAAATNNANTGGTGGTTTCATTTNGGCCNTCNNCCCCCNNTTTTTTGNCTCTTTTC
CACAACCCTTTTNGAAATATAATCATAAGGCTCTNNTCCCACTTGTNANGGGCCACTTTC
CCCCTTTAATCCCCAATTGGTTNAANAAAAACCNCNGNGTAGAAAGNTTCCAAAATATTT
AAANAACCCCNTCTCTTTATTCTNTTTTTTTAAT
Sequence 4534
CCGGGCAGGTACAAAAAGCAGGGACCAAGATAAAGCATCTTGACTCAGTGAGCTTACAAT
CTTTGAAAGCTAGGGAGGGGAGAAGCACTTAGATCTTATGCTGCACCCCACGCAACCACC
TATAGCATGGATTGTTCATTTCAGCCATTAA
Sequence 4535
ACGGGAAAGAGGTGCTGGAGTATCTGGGTAACCCTGCTAATTACCCGGTGTCCATTCGAT
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TCTTTGCCATCGGCTCCCAGCTGTCTCCTGAACAGGGAAGCTCAGGCCATTGAGATGCTG
GGAGACAGACACATTCAAAATTGCACCTGCTACCAGGACACTTGNACAGGGGGATTCAAA
GTTTTTNGTGGGGTTCTTAGGCCANAATCCCTAAGGCAAAANGCTGGGGAAATAANGAAT
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ANCTTTTTTNGCCCCCTTCNAAAGGAAAATCCCCAATTTCTTAAATTTTCCCCTTTTAAN
AAAAAAATNGGCCCCTAATTCAAAAGGGTNGGGTTGGAAGGCCTTCCNTTTTTGGACCCC
CANGAAAAACCCCTGGGAAAANCCTTAANGCCTTCTTGGGAAANGGGTGGGGGCAANGTA
ANAAAAAAGGCCNTTGNGGAAAACCTTTTT
Sequence 4536
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AATATGGTATTCAATGAAAAGAATAAAGAGAAGATTTGAATTTTCAGTTTCATTTTCAAA
AACTATTTACCAAAACAAATGGGAGAAGAAACATCCAAAAGCACATTTCATTTCTCCAAA
CTTTGTGTTTTAAATTATAGTTATAAATTGTAAGGTAATTTTAAATTGNCCCTCGTATTA
TTTCTCCCGTCTGTTTTAGTTTAATGTCTCCTAAGCTTTTCTCTCATAGCGTAGACCTAG
GGAAGGGATGGGAAGATTGCCC
Sequence 4537
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CCTCCACTCAGAATCCCTTGGTGGTTACCAAAATGTGAACCCTGAATAACTGAGACAGGT
CTCAGTTAATTTAGAAGGTTTATTTTGCAAGGTTGAGGACCCTGTGACACAGCCTCAGGA
GGTCCTGATGATATGTGCCCAAGGTGGTCCAAGCACAGGTTGGTTTTATACATTTTAGGG
AGACATGAGACATCAGTATATGTAAGATGTTCCTTGGTTCTGTTGGGAACGGCAGGACAA
CTTGAAGCAGGGAGGGGGCTTCGAGGTCCCAGGTAGGTGAGAGACAAACACTTGGATTCT
TTTGAGTTTCTGATTAGCCTTTCA
Sequence 4538
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GTCTCAACTTTTCCCTGTTAAAGAATACTCCGCTCATTTAAAGTGCAGCATAAGCCAGAA
GTTAATATTCTTTACTTTGGTTTCTTTACTGTATGGTCATGAAATAAAAAGCTTATTTAA
AAATATAGTAAGAACTTTAAATGTATTTTGGAGAATGTAAAATTAATCTCAGGACAGAAT
TGCACTATCCCTTCCTTTAGGAAATAACTTTATGAAAAATACCCCATCCTTTGGGTGCTG
CAATTTTGTTGGAAACTTAAATCCTTTCACACTTGCTTTTACCTATGAACTGGCCACCCA
GAACTTCTGGCAAAATGGATCTATTTAACTTCNTAAGAAAAAAAAATTTACTTTCAAAAG
CCCTTTTATCATTTTTGGCTTAACCCTGAAAGCNTTTTTCANTCTNAACAGNCCNTTGGA

Table 1

AAAAACTGCCNCCCCCTGAACATNCCCANGGCTGGGAATTTNTATTGGNAAACAAAAAAN
AGCTGGGGGAGNCCCCTTATTGGATTCCAAGTNGGCCACCGGACATTCAANGAGTAGNCT
TTCCGCATTTCATTAAAAAGTGCANCTNAATNAAAGNACCCGGNCCCTTTTTTTTT
Sequence 4539
GGCGGCGGCCGAGGTACTGTGTTAATCACTTTACATAAATTATCTCATTTACTCCTCANG
ACAACCCAAAGAGGAAGTATAATTTTTGCCTGTTACTGGTGAGGACCTCATGCTCAGAGA
GGTTAGGCAGCGTGTTCGTGATAACACACTTTATGAAGGAAGGGAGGGATGTCANCCCAN
GTGAGCTGCCTGCAGAGCCTATGCTCTGATATTGCTCCAGCTACCACTTTTAACATTTAN
TGTTCTGACTTACTATTATAATGGAAGCCCTACCCTATCTTNTGTGTATNTGAGAGGATT
TGNTTTTTTATTCATATCTTCGAATGTCTGTGAATGACTCTGACCTCAATCCTGTGTGTG
TCTGGACCTCTACTAGAACGCATNTGGCATATGGGTAAGCTNACCCAACACAAGGATACA
CCACCNGNAGTGGCTGAGGGCTACACGAGCTCTTANCANAANGANAAAGTTAGTGCNAAT
TCCTTCTAACCGCCTTCCTTTCACTGGACNTGAATGCCAATNAACCTANTCCTGNTGGTT
ANGACAACACTNAAGAAANGGCCNTCTAGAATAGAATGGTAAGCCACATTGCATTTAANA
CCTCTTTTCCTTAAAGGGANCTTGNCCCGGGCGGGCCGTCTTAAAACAANNGGATCCCCC
GGCTTCNCCGAAATTTNANTTCCANCTTTTNGAACCCNTNGACCCCCAGGGGGG
Sequence 4540
TCGCCCGGGCAGGTACANATCTTGGCTCACTGCAACCTCTCCCTCCCGGGTTCAAGTGAT
TCTCGTGCCTNANCCTCTTGAGTAGCTGGGATTACAGGCGCGCGCCACTTGCGTNCGGCT
AATTTTTAGTNATTTTNTAGTANTAGTATGTGGGTTTNNCANCATGTNTGNGTNACAGNN
CTTGATCTCANAAACNACCTGAACCCTNCANTGNTGAGTATNACTCTCAACACTTTGNGC
CCTTCCCTCAGAAGTTTGNCTTGNNGTGNATTNTATCTAANNGGCCGATTGNNAGNCNCN
AACTCCGTTTGGCCTTTNNAAGANTCTTTAACNAANAAGNACAAAAANTATTTTATTTTT
NAAAAAAAAAAANCATNGGNAACTACCTCTTNTANTTTTAACCNTTGGAATTNATAAAAA
AATTTTCCATTNCCTNGATTCTNGTNAAAAAAAAATTCCCCTTCAATTTTNTTAAACCCT
TAANT
Sequence 4541
ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT
TTTTGGGGAGAGGNTTGCAAAAGTNTACCAAATTTCAATTAAGCAGGAAAAATAAGGTCA
AAATATATATTATNGAACAAATGGACTACAGCAAACGTATACTTGAAAATTGCAGAGTAG
ATATGTGNGAGTTAATGCTTANGGNTAATTAGCNCACCATNGNTAGTCCATAATGT
Sequence 4542
AGGTACAAAAACAAGCTGTAGCCTGACCACCTTGGGCACATGTCTTCAGGACCACCTGAG
GCAGTGTCACACGTGCATCCTTAACTTTGGCAAAATACACTTTCTAAACTGATTGAGACC
TGTCTCAGATATTTTGGGCTAACACAATGAATATGAAAAAACTTTTTTGTTGGCGGGGGT
GGGAGGTGGGACGGAGTCTCTCTCTGTTGCCCAGGCTGGAGTGCAATGGCGCAATTTGGC
TCACTGCAACCTCCACCTCCTGGATTCAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGC
TGGGATTACAGGCACACGTCACCATGCCTGGCTAATTTTTGCATTTTTAGTAGAGACAGG
GTTTTCACCATGTTGGTCA
Sequence 4543
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCAAACACTATCCTAA
GCTTAGCCTCTTCAGATATTTGATTTAAAAATCACTGTAAAAAACACCAGTCACAAAAAG
CCACATTTTATATGATTCTATTTATATGAAATGTCCAAGATAGGCAAATCTACAGAGATA
AAAATTAGATGAGAGGTTGCCAGGATCAATGGTGGGGGAAACGGGACCATGTTCACAGCC
AGCTTCCGCAGGTCAGCATTGAGCTGGCCTGGGAAGCGCAGGCAGGTGGTGACCCCACTC
ATGGTAGCAGACACCAGGTGGTTCAGGTCACCATAGGTGGGCGTGGTCAGCTTTAGGGTT
CTGAAGCAAATGTCCGTAGAGAGCTTCGTTATTAATGCAGTAGGTCTCGTCTGTGT
Sequence 4544
CGACTCCTATAGGGCGANTTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGGGATTACA
CGGCACATGTCACCGTGCCTAGCTAATTTCTTGTATTTTTACC
Sequence 4545
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATGTTGACAAAAATGCCAGATC
AAATGGATTNGAGAAATAAGCCCAATTCAAGGCTGGCTCAGCCCTCCACGGGGCCTNCCA
GGGAAAGGAATTCCTTTATGTTCTTGGAAGCCCTTTNCTAGAAAAGCCATTCCATTCATA
CCTTTGTAGAGCAGTGGGCTGGGTGTGGAGGGCAGCGCGGAGGGTATCTGCAANAGCCTG
TNTTTTNCGCCTCCCTTGCCCCCACTCCTTTTATCCTTTTAAAAGTCCTATCAAGCCCTG
CCTTCGTCCCTTCCGCCCTAAGCCCTAAGAGTGGGGGAGGTGTAATACGGCCAATGGATC

Table 1

TTGTATAAAGNCTACGTTAAGTT
Sequence 4546
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGGTTGCATGGAAAAG
ACACACTAGCGTAAGACATGGACAGTGGCCCTGAGTGACGTGCAGCCGGTTTAGGCGAAT
TAAGATTTACATACTTGAAAAGGGACAAACAAGTCTGGACGTGGTGACTCATACCTGTAA
TTCCAACACTGTGGGAGGTGGAGGCAGGAGGATCCCTTGAGGCCAGGAGTTTGCAACCAG
CCTGGGCAACATGGGAAAACCCCTGTCTCTACAAAAATTAAAAAAAAATTAGCCATGTGT
GGCAGCATGCCCATAGTCCCAGCTACTCACAGGGGCTGAGGTGGGAGAATTGCTTGAGCC
CAGGAGATC
Sequence 4547
AATACGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTAC
AGAAAAGGTGAATCTGTGTTCTGTATATTCTGCCTAAGGCAAAGAAATGTTTAGCTCTCT
TTAAAATAGTTCCATAATTTTTTCTAAAAAGCTTTGCTTGAAAACTGTAAGCTTCCCATA
TCTGGAGCATTTCACTTTAAATATTTGGATAAATATGCTATCTTCTTACTTGGACATTTC
ATGTGTTTAGGGATTGTCTTCTAAATTCTTCCTAATTCATATAGCTGCTAACACTTCCCG
CAGAGCTAAACCATTACAGATATGAAATAAAGACCTATTGATTTGACTTACTTTTACTTG
TAAAACCTTCTGAGTGTTATAACCTCATTTAATCTTTCAGCATTTACAGTTTCAAGAGTT
TGTGTCACAATTAGAAGA
Sequence 4548
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTACTGGTAAAACTT
CATTTATTTAANATGACTAGTGATGCAGCTAGCAAACCCAANAAGCCAACTGGAATGGAA
ATGCTCAGTGGTGCTCAGCCATTACCCAGGACCAGANATTCCTTTGTTAACAGTTCAATT
TGTTGAGGCACAAGTGAGGATAAATTGGGCCATGACAAAACTATGAGATTGAATGATAAT
CATAGTAACATCTGACATATATTAAATTTGGNGTTATGCCATTTCTCAGTTCCACCAAAT
GTACCTGCCCG
Sequence 4549
ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCTTCCCTTGGCACCATGTTATACCATC
TGTGCTGGGCTGAATAGTGTCCCCCCAAAATTGAATAATGTCCCCCCAAAATTCGTGTAT
ACCATGAACATTAGAATGTGATCTTACTNGGTATTACTTGGTATAGGGTGTTGTAGAAAT
AATCAAATAAAGATGAGGTCATACTGCATCAGGGTAGACCCTAAATTCAATGACCAGGAT
TTTTATAAGTGAAAGGAGAGGCGGATTCAGAGAAAAAGACACAGACACACACAGAGAGAA
GACAGCCATGTGAAGACACAAGCATAAATTGAAGTGACACAGCTACAAGCCAAGGAATGC
CAAAAATTG
Sequence 4550
CCGCGGTGGCGGCCGAGGTACCTACATCACGAGTGTTACTTGAATGGAGATGTATAAAGT
GCATTTTAAATTCATTTGTTTCCTTAACATTTTCCCTTCATTTCTTATCTTTTCAGAGTT
TCTTCTTCAAGGTCTCAAGGTCTGAAGCATCCCACAGAATGATCCTACTGAATAACTCCC
ATAAGTTGCTGGCCCTATACAAATCCTTGGCCAGGAGCATCCCTGAGTCCCTGAAGGTCA
GGGAACAGTGGGAGGTCAGGGTATGGGAGGNGGGGGTGTTTGAGGGATGAGAAAATAGCA
GGCTTGTGATTCTAGTCCTTCCTGACTGTTTGCAGAGGGTTGGAGCTGGGAAACAGGATG
GGACTGGGGGCACAGGCTGCATATCAAGAGCTGCTGCTTCTCTTTGGG
Sequence 4551
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTCTGTGAGT
CTGCATGAACTACAATGTTACTGGACTTGGGGTGCCCCCTAATGCAGATACAGTGTCAGT
CACAACACCCAAGCCATTTCAAATACCTGGAAAGCCTTCCCAAGAAGGACAGCTACAAAC
AAGCCCAGACTGCAAAGACTACAATAAGGACCTAATTATTCGGTGCCCAAACACCGGTGA
CATCTGCAAGCATCAACATCATCCAGGAAAACAGCCTCACCAAATGAACTAGATAAGGCA
TAAGGTGCCAGGGACTAATTCTGGAGAAACAGAGGTATGTGACAGAGAATTCAAAATGGC
TGTTCTGAGGAAACTCAAAGAAATTCAAGGTAACACAGAAAAGGAATTCAGAATTCTATC
AGATA
Sequence 4552
GAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTGCTGTAAAACTGCAGAGAGGAGCACTAG
CAAGAGGCTCTCTGCCCCTTCCCTGCTTGGTCTCGAAACACTAACAGCCTGGCTCCTACT
CCCTAAATTGGGGGTGGCAGTATACCTCTGGGTAAACTGAGCAGTCGGAAGATGAAGTCA
TGTGGGGGTGATCCTCAAATGAAAAAATTCATTCCTTATCTTGCCCCCACTCCTCACCTA
ACTGCCAGTCAACTATTTAATGTGAACAAAAAGCCAGGTATTGGGGGAAAGCCTGTAATA
TAAAAGAGAGCAAACCAAGCAAACAAACAGAAAAAAGGGAACTCAGAGGAAGCAGAAACA

Table 1

678/863

GTGCAGGGAACTGAAGAAAACTTAAAAAGATCCAGTCCCTGGGAGACATGAGGGAAGGTA
TTTCATCAAAAGATGAGAATAAAGTCCTATAAAATGAAATATTCAAAAGAAAAAATAGCT
TTTGGAACTTAAAAAACAGGATAGCTGGAAAAAAATTTA
Sequence 4553
CCGGGCAGGTACAATCTTGGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGCGATTCTCC
TGCCTCGGCCTCCCGAGTAGCTAGGATTACAGGTGCCCGCCACCACAACCAGCTAATTTT
TTGTATTTTTAGTAGAGATGGGGTTTCACTATGTTGGCCAGGCTGTTCTCAAACTCCTGA
CCTTAGACGATCCACCCACCTCAGCCTCCCAAAGTGCTGGAGTTACAGGAGTGAGCCACC
GTGCCCAGCCCCATATACTTTAAATTATCTTTAGATTACTTATAATATCTAATACAATGT
AAATGGTATGTTAACAAGNTGTTATACTATATTGNTTAGGGAATCATGACAATAAAAAAG
TCTGTATGTGCTCANGTTCANATGCTTAAAAAATATATATTTTCA
Sequence 4554
ACGACTACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTTTTTTT
TTTTTTTTTTTTGGTTTGAGACAGTTTCACTTTTGTTGCCCAGGCTGGAGTGCAATGGGA
TGATCTCGGCTCACTGCAACCTCCGCCTCCTGGGTTCAAGCGATTCCCCTGCTCAGCCTC
CTGAGTAGCTGGGATTACAGGCAATGCGCCACCATGCCTGGCTAATTTTGTATTTTTAGT
GGAGACAGGGTTTCTCCACGTTGGTCAGGCTGGTCTCGAACTCCCGACTTCAGGTGATCC
GCCACCTCGGCCCCCCAAAGTGTTGGGATTACAGGTGTGAGCCACTGCACTCAGCCAATA
TCTATTATTCTTAAAGTCTTTACCAGGTTTAAAGGTCTTGGATTATAATTCTGATGCTAA
TTGCTTGGAAATGTATTGCTATGTATTTATGAATATTCTCTTTATAACTAAAGATGAATG
CCTGGAATTTTTGCAAAATTTTAAAATTGTTTTTCAAAAGATAAACTAAGATAAAAATTA
CAAGGTTCATTTCA
Sequence 4555
CCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTCTTTTTTGAGATGGAGTCT
CGCTCTGTCGCTCAGGCTGGAGTGCAGTGGTGTGATCTCAGCTCACTACAACCTCCACTC
CCTGGGTTCAAGCCTCAAGCCTCCCGAGTAGCTGGGTTTACAGGCATGTGCCACTATGCC
CGGCTAACTTTTGTGTCTTTGGTAGAGACAGGGTTTCTTCATGTTGGCCAGGCTGGTCTC
GAACTCCTGGCCTNAGGTGATCTGCCTGTCTCACCTCCCAAAGTGCTAGGATTATAGGCA
TGAGCAATCACGCCCGGCCTATTGGTTTATTTCAATAAGCAGTTATGAGTAAAGAAAGAT
AAAATCTAGCTCTATGCATTATTAAGGTAAAATACATAGCTTCTGACACAGCTACTTTTT
GCTCTCCTGTGAAGCCTTTTAAA
Sequence 4556
CTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGGCGGCCCGCCCGGGCAGGTACAGTTT
ACAAGGTAATACCTCTAAGTGTGCTTTTAGCGTTCAGTGAATTCTTAAAACTGCTGCTGG
AGAATTGTCCCAAACATATTTTTTTAACCTTTGTAGGACATTTAGCCCATCAAAACCTGC
AAAATCTTTACATACACAGAAGAACAGACAGTTCTTCAATGAACCAGAAGAAAATTTCTG
GATGGTCATGGTATTTACATACACAGTGTATCTTTCTGAAATTGTATGGTGAAGTTATGG
GTGATCTTTACTGTTCAGAATTTAGGAAAGTTCTCTGGCTGTTGCATCCAAGTAAAATTA
AAATAAAATTGGTTGCAATTTTAAAATCAAGTTCTTCCTATTTGCTTTATTCATTCTTGG
GGCTGTTTTAAGAAGCTATGTTTCTGATGCTGTAGCATGTTCAAAGTTTTTAAATTAAGG
CAAAATAAACATGGGTCTAATGAATTCATTGTATAATTTCAGNTTA
Sequence 4557
TACGACTCACTATAGGGGCGAATTGGGAGCTCCCCGCGGTGGCGGCCGAGGTACTACTAG
GTTTACCCTCTCATTTCCTTTATCTTCAACTTATTTTCTTTGTGTCATCTGAATCCTCCA
GATATCTAACTTTTCCTTTTTATGCCTTTCACATTTCCATTGGAGATCACTTTGTCCCCT
TCCTTAAGGTTCTGTCGGGAGAGATTTAAGAGTTGGTTCTAGCTAAAAAATATGGCTGTA
GCTCTGAAGATGACATAAAAGTTTTTCCCTATGCCTAAGATTTCAAATATATGTATACAT
TTGAAAGAAAAAAACAGGGAGAGCATTATTTTTTTGTCCAGATTATTTTTGCTCATTGTAG
GTAAAAAACAATCTGTGTATATATGTAAAAAAAAACAAAAACAAAAACAAAAAAAAAACC
TTTCAGTCCCTACATAATAACTCANNAAATAAAGTTCTTCAGCCAGCTATGGGGATGGGG
GAAACAATTCCCAGGGTACCTGCCCG
Sequence 4558
CCGCGGTGGCGGCCCGAGGTNCAAAGAANCCTCANTCCCCACNACACCCTNCCNTGCATG
GTGTCACTGACATCTNTATTGNCTTTTGTCACGTNCTGTAAATCACAATGAATGGGGTAT
TCTTCTTCTATTATATATTTGTAAGCTTTANTGGCATCTNTAAAAAAAAGTGGTAACTNT
ATCCTATGTAAT
Sequence 4559

Table 1

AGGTACATCTGCCTATATTCCTTGTGATAGTGCTTTGCTTTTTCATAGATAAGCTTCCTC
CTTGCCTTTCGAAGCATCTTTTGGGCAAACTTCTTTCTCAGGCGCTTGATCTTCAGCTCT
GCGAAATTCCTTCGCTTTTCTTAAGGGTTTCTGGCACAGCAGGAACCTCCTTCTTCTTCT
CTTCTACACCCTCCATGGTTCCAGCCGGAAAAAGAGCCCCGCGTACTATGTGGCGTTCTT
CACCTCCCCCTTCGTGGTCTTCTCCTGGAATGTGGTCTTCTACATCGCCTTCCTCCTGCT
GTTTGCCTACGTGCTGCTCATGGATTTCCATTCGGTGCCACACCCCCCCGAGCTGGTCCT
GTACGCGGGGTTGCATTTCCAAGCCATTGCTACAAAGAACCTTATTTGTTCAAGTAACCG
GTANAAAAATCCTTCCCGA

Sequence 4560

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTGT
TTTTTTTTTTTTTTTTTTGAGATAGAGTCTGGCTCTGTCACCCAGGCTGGAGTGCAGTGGC
ATGCAATCTCGGCTCACTGCAAGCTCCGCCTCCTGGGTTCACGCCATTCTCCTGCTANCT
CCCGGGTGGCTGGGACTACAGGCGCACGCCACCACGCCCAGCTAATTTCTTCATATTTTT
TTTAGTGGAGACGGGGTTTTACTGTGTTGGCCGGGATGGTCTTGATCTCCTGACCTCCTG
ATCCTCCTGCCTCGGCCTCCCAAAGTGCTGGGATTGCGGGCGTGAGCCACCGCGCCTGGC
CTGCTTAGAGTTTTTTATGTAATTATTTTGTGACACAAACATTTAAAATACTGTAGCTTA
NAATGAAATTGTCTCAATCCTAGGAGCCAAAAGTTTGATGAATATGAATACTAATATTAA
CCATTTTT

Sequence 4561

CCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTCTTTTTTGAGATGGAGTCT
CGCTCTGTCGCTCAGGCTGGAGTGCAGTGGTGTGATCTCAGCTCACTACAACCTCCACTC
CCTGGGTTCAAGCCTCAAGCCTCCGAGTAGCTGGGTACAGGCATGTGCCACTATGCCCGG
CTAACTTTTGTGTCTTTGGTAGAGACAGGGTTTCTTCATGTTGGCCAGGCTGGTCTCGAA
CTCCTGGCCTTAGGTGATCTGCCTGTCTCAGCCTCCCAAAGTGCTAGGATTATAGGCATG
AGCAATCACGCCCGGCCTATTGGTTTATTTCAATAAGCAGTTATGAGTAAAGAAAGATAA
AATACTAGCTCTATGCATTATTAAGTAAAATACATAGCTTCTGACACAAGCTACTTTTTG
CTCTCCTGTGAAGCCTTTTAAAACTTTCTCTGAATTCCTGATTATGTTCTGAAAGAATAA
GCTGCTAAAACTGGCCTCCAANGATAGTTACTGCAGGAAAAAAACTGAAGGCTAAATGAA
AAGTGTTGNGTAAGGNTTATGACCAAAAAAANTTACTCTAAAANTAATTCAGGNCAAGAA
ACCTTTCCCTNTGGTTAATAACCGGTTTAGAATTNTTCCCNTTAAAAGANGGAAGAAAAA
CTAATCCTCCNTACGGTTNTCACAAATCTAANGGACNCNTTTTAAAATTCCCCTTTC

Sequence 4562

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTNCTTTCTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTTTTTTTTTTTTT
TTTTTTNNNGNANAAAACNTTNAAAANTTTTTTTTAAANACAAGTNTCCNTNTCCCCGAG
GTTTNTNCNNCTGGNGGAAANGAANAAATGTCCCCCNTAAGGAAAAAAAGTNGNNANANN
CCNTTTNTTNAAANACNNGGGNGCCAAACTTTTTTGNAACNCNTTTTTATGAAAAAGGCC
TAGTNTAATTTTGGANGGNNTAAAAACANTTTNTAAGGNTTTATTTTNTAGTTAACCCTC
GACTTTAAACNTTCTTAATCCCTCNTTTAANCGGNTTTTTTTTTNTTTAGCCCTTTGCAA
AGGGAAATNTAANAATTGAANTTTNGGGNCCCCCCNCAAAATTTTTAAATTAAAACCCAG
CTCCCTTTTCCTGGGCAAAANAAATGCTTACGANNTTTGGAGGNTTNCCAAAAAAACTTT
GACCGTTNAACCGGGTTAATTTTNTTTAACCCANNNGGNGNGGAAAAAGTTTNTCCNTAA
AAACCCTCNGGNNCTAAAAAANCAAACCTGGTTTAAAAANTTGGGGGGGGGNACCCTGGA
AAAAAANCCACCCTTNGNGAAANCCTTGGCNCCCGGGGGGGGNCCNTGGNTTTCNACNGG
GGGGNAAAAAGGAAACCCCCTCCAAAAAAAAAACNNGNGGGGATTTTTTTGNCCCCACGG
GGATTTTTTNGGGGAAGGGCAANAAAATTTTTTAAAAAGGGGCNCNCCCCAAAAAAATTT
TTTTTTTTTTTTTTNCCCCCC

Sequence 4563

CCGCGGTGGCGGCCGAGGTACTTCGGGAAAACAAGAACTGTGCTTCAATGTCTTTATAAC
CACACTATATGGCTCATTGTAAATGTTCAACAAATGCTTGATGAATGACTCAATGAGCAA
AATTACATGAAAACACTTGCTAACCTATCTCTTTTCATCAAGTATGTAGCAAACACATGC
CCACACCTGGCACCAGAAACTATAAGTGCTATCTAAATATCAACATTTTATTTGGCCTGT
GCACTTATCAGCTAGTGGAAAGCATAAATTATTCCAATAAACAGACGGGAGGTGTGGAGG
CAAAATATCACACCTAGGTCTTCAAAACTAATGACTTTCAAATCAAAAACTGCATTACCT
GATAAAGACTTAACTTCATGATTATTTCAACAGGGACTAAAAAAATTACAGGAAATCTTG
GAAACCAGCTATCTGGCCCAAAGACACTAATTTTAGAAGATGAAGAAACTGGAGGCCCAG
AGAAGTAATCAATCAAGGACACCCAGTTAGTGGCAGAAGTTTTAATTAAACCTAAAATCT

Table 1

680/863

TNTGGNCCTACCCTTAGTTTTTGGTCTTTTACCACCTGGTTGCCCTTTGGTTTCTATTAA
AATCAAATCTTTTTTTCCNCAACTTAAAAAAAAAAAAAAAAAA
Sequence 4564
CCCGCGGTGGCGGCCGAGGTACAACTGATCAGCAAAAATATTATGATTAATATGTTAACT
GAGGAAGTATATCCTACAATTTAGAAAGATTAATATTTAAAATAGTTAAAATTATTGAAA
GTTTTAACTTGCCCGAAACAGTCCCTAACCATANGGGACAATTAATGATGCTATAAAATT
CTATCTAACATTCCTAGTCTACTTGTTGTTTTGGAGGGCAGGCTGCCATTCCTGCCTATT
TTAATCTTTCGAAGGTGGTCTCTGCTCCCATTTAAAGGTATAAGCAATTAAGAGATACAG
AACCCTCAGAACTACCTTCTATAACTTACCTAATTTCTAAGCTTAAAATGTAATCTAGGC
TGGGCATGGTG
Sequence 4565
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGTGGCTCATGC
CTATAATCCTAGCACCTTGTGGGGCTGAGGCGGGAGACTTGCTTGAGCTCAGGAGTTAGA
GGCTGTAGTGAGCTACGACTGAGCCACTACACTCCAGTCTAGGCAACAGAGCAAGACCCT
GTCTCAAAAACAAAAACAAAAACAAAATAACAGAATATTTGTTGCCAGTGATAAAGTTAG
ACCCTAAATAAAAATTAGAACTTTAGAAAGCATGCATTCACCACCATGAACTTTAAAGCA
ACCCAATATTTAAAGACCTTCCTGACGAAATCAGTGGAATTATTAACAAATGTCTTTATT
TAATACTGTATGATAAAATGTGTCAACATTTAGAAAATCTGCGTAACTCAAA
Sequence 4566
CCGCGGTGGCGGCCGAGGTACACGTGGTGCGATCTCAGCTCACTGCAAGCTCCGCCTCCT
GGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCATCTGCCA
CCACGCCTGGCTAATTTTTTTTGTATTTTTAGTAGAGACGGGATTTCACTGTATTAGCCA
GGATGGTCTCAATCTCCTGACCTCATGATCCACCTGCCTTGGCCTCCCAAAGTGCTGGGA
TTACAGGCATGAGCCACTGCGCCCAGCCGAGTCATTTTTTAATACTACTGCATGTGAGTT
AACACAATCATTCCCAAATTGAAGTTTTAGAATGGGCCCTCAAAATTTTTAGGATATGGT
TTTTCCTCAGGTTTATATTGA
Sequence 4567
CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTAAA
GAGACATGTCATTAAAAAACAATTTGGCTACTAAATTTTGTTCAAGAACTTTACTCACTA
CTGGTTAGGAAAAAAGCTTATCATTCACTATCCTACACAAATAAAAACACCAGTTAAAGG
CGAGAGATGGAAGAGAGAGAATAGGTCATTTACTTCAGTAGCTACACCTTCTGTCCCCAA
TCACAGGGACGAAATGACCCGAGGGTGGGTGAAGCTATGCAGTAATACAGCCTTCAAAAG
ATAATCACATTTGCATTCTCAATAGCACAGACACAACCATTTAATTTAACTTGACAAATC
ATTTGAATGTATCATAATTAAATAAAT
Sequence 4568
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACCAATGGCCCTTCCCTC
CAGAAAAACACACAAACAAAAAAATGAGAAGAAACTATCAGAATTAACTTCATCTGAACG
CTGGAAAATAGTCAAAGGTTTACAGCAACTAAGTAAATAGTGGCTCAAGAAAGAGGAAAC
ATGAATTTTGGTGGCATTTTTACTTGCCCTTGCCCCAATGCCCTCCCTGATTTAGTGGCA
ATCTTGACAATGGCAGCCCACATTTCCAGCGTGGGACTCCAGTTCTACAGAAGGCAGAGC
AGATCTTATTTTCAAAGAACTGTGTTTGTCTGTTTTGACTTATCTGGGGACAACCTTCAG
GCCTGACAAAAGACACTTGCCTTACTTTCACCTAACTCAAGACTTTCTCAAGGCAGAAAA
GTGGCTATACAGAGGGCATTCTTTGAAAACATTGAAAGGCAAATGAACAAACCACCGTCA
CCTGAAGCAAAAGATTACTGTTAAGGCACACAAAAGATATGCTGCAGCCTGGGAAGAAAG
ATTCTTTGGAAGATTTAGTGCATTGAAAAGCTGCCATGTGTTACTGGGGAATTTAGAAAG
CCATATGCATGCCCGTGGTAGGGATGCATATTCNGAAAAGACCTGANGAAGACCCAAACT
TTCACATCTGCTGATCTTTANGCTCAGTTTCAAGCAGGCTTNTGAGANGACTGTAAATTA
CCTGTCTTAACTTTTGAAAAAGTGCCCCATGCNAAAGCCCATCAGCAATTTTTAGAAGAA
TNNATTTGGGGGNTAATTATTTTAT
Sequence 4569
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTCCTGTCCCAAGAAAAAAGAAGAAG
ACTGGAAATGTGTCCTCAGAACCGACTAAAACCAGCAAAGGTCCTTTCCAGTCTCAGAAA
AAGAACTTATTCCACAAAATTGTCAGCAAATATAAGCACAAAAAGGAGAAGCCCAATGTT
CCGGAAAAAGGAAGTGGGGATAAATGGTCAAACAAGCAACTCTTCTTGGATGCCATTCAC
CCTACAGAAGCCATAATTTCAGAAGACAGAAACACCATGGAGCCTGTTCATAAGGTTAAA
AATATCCCATCCATTTTCAACACTCCAGAGCCAACAACAACGCAAGAACCTTTGGTGGGC
AGCCAAAAGAGAAAGGCAAGGAAAACCAAGATTACACACCTTGTCAGGGACAAGCAGATG

Table 1

GCCGGGTATCACCAGCAGGAGGTACCTGCCCG

Sequence 4570

CCGCGGTGGCGGCCGAGGTCTGTTTACTAAATTATAGCACTGCAATAAGACATTTCACCA
ATATGATATTGAAGCATAACAAGTTATTTCATAAGGAATGGTAATTATCTAACATTCTAA
GCAAATTTGGCAGTGTGACTTGGTGGGGCGCAGTGCTGCCCTGACACAATGACAGCCTTA
CTCTCTAAATTAGTAACTTCCGTAGGAGACCCCAGAAGCACACCTCCCTCCCAGCAGTGA
AAGCCGAGGATTCCCGTTTTGATTAGCAGGCGCCTTCTGTTCACGATAAAGGGATAAGAA
TCAGGCAGTGATGGCAGCGGAGTTCATGCTTCATTAAGGCAGGCATTGCAAACTAGTTCA
GAGGAGAGAATCCACGATGACAGCACATTCTGTGCCATGGAGAACATTCTTAAATCAAGC
CTCCAGTGGAGGAAGGACTCAAGAATGAAATAGCACCAGATAACGGGGCATCATTAGACT
TGTAAAGCAAAGCTTCCATTTTCTATTTTTATATAAACCATTATTAATGCCTTTAAAACA
ACTGTGATATCTGGACAAATAAAATAAGAAATGACTTCTTAAGATGATTGCAACTTTTAG
TCTTGATTTATAAAAATTATTCTACATAATTTTTAAGTAGGGGTAACTGATAATTTTTCT
CACTTTTTTTTTG

Sequence 4571

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGTGTCTCACTCTGTCACCCAG
GTTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAACCTCCCTTTCCCAGGTTCAAGCAA
TTCTCATGTCCCCGCCTCCAAGCAGCTGGAACCACAGGTGCACGCCACCATGCCTGGCCA
TTTTTTTTTTTAATATATATATTTTCAGTAGAGACGGGGTTTCACCACGCTGGCCAGGCT
GGTCTCAAACTCCTGACCTCAGGTGATCCACCCGCCTCAGCCTCCCAAAGTGCTGGGATT
ACAGGCGTGAGCCACCGCGCTGGGCCATCTGTAGTCTTCTGCAAAAAAAGGGTCCTCTAA
CATTTTTAGGCTAGTTTTGCAAAAAACTTTTCTGTTTTTTTGAATCCTTTAAAAAAATTT
GATGTCCATTATTTTAACTGCATCCTTAAATATTTTACATGCCTCTATTTTTAATGACTT
GGGGTATAGTNGCGGNGATAAAGATACCATTAGTTCAAAT

Sequence 4572

CCGCGGTGGCGGCCCGAGGTACGTAAAATGAAATTTAAAACCTCAAATGGCTCACTGCTC
AGAAACCTCACAGATGGATGCTGGGTGGTGAGCAGCAGAAGGGGTTGTGGGTGAGTCTAC
ATTGTTGTAGTTGTCCTCTCACTACCCATTTGCAAGGAAAGCCTGGCATCAACTGGATAT
AGAACCGGGAGCTCTGATGATGATAACTCATTTCTTAGAGAGTCCTTTTTCTACTTTGCC
TGTTTTGATCTCTGCCTCAGGCATCTGATGGGTCTCTTTGATTCTGATGCCTTGGGTCAA
ATCATACAGCATAATGGAGTCATGGAATTGCAAGTTTATTATGAATGTGATCTGAGCAGA
CGCCTACACATCTACCCAATAGCCTTTAACCTCTAAAGGGCTAGAGTCATTGTTCTTCAA
ACCGTTGCACTGTTAACTGGTCAAGTCTGGCAACTTCGAATAGACCTCACCTCCCACGTT
GCTCTCTCCTGGTCAGAGCTGAAGCACATGGAGATAGTTGGGGTTCACAAAGCTCATATT
ATCAACCCTCTTACTTTACTTTTCCTG

Sequence 4573

CCGCGGTGGCGGCCCGCCCGGGCAGGTACATGGCGAAGCTAGAGACTGTAACCTGAAGAT
TGGGACAAATTAAAGAAAAAAATGTGATTTAACACAATTACAAAAACTGTTACGTTAGGG
TCAAACAAGAACCATTTTATGAAACTGAATTACAACAAATGACATTATATCTAACTCTTC
CGGGTCTCCACAGCACTTATACTTACTTAAGCAGCTTAAACACTTCCGAGTCTCCACAGC
ACTCTGATACTTACTTAAACAGCTCTTTTAACCTGCCCTAGTATTCTTAAGTGCAACATA
TCTAATTTTTTTTTTCCTCAGTAGTTTGAACACTTGCTGGCTATTTTTTCTGTCCAAGTT
CTCAAGTAACTTCGGCCTGTGTAGTCAGTGGTTCTACACAGCCGACACTACTTCTTACAT
AACACTTGGTCTCTCTGGCTTCTGGAAAGGGCGAGGGGTTACCTTCCGGAGTCCAGTGCT
CTTTCGGCACTTCTGCAACCAGGCAGTGGTAAAAGGGGGTGCTCTCCAAAACCATCTTCT
AGCAGATCTTTTTCAGTTAAGATTACTTGTTCTTCCATGTATTCATATTTAGCCAGCTNC
TTGATCAGCCGCAATATGTCACTGCANTCGGCGGCANTGGCTGGGCCGGATCACGAAATT
TAGCCATTTTCGGCTTTTGCTTT

Sequence 4574

CCGCGGTGGCGGCCGCCCGGGCAGGTACCTCCTCCCCACTACCTANCTCTAGCTTCTGTC
CAACCTGGCCTATTTTCCATCCTTCAAAACAAACCCCAATGTGTATGGCTTACTCCAGCT
GCTTCCTTACCTTCAGGTTTGTGGGCTTCATTTAAGCCATGGGAATGCCAGCTTAATTAA
TGCANATTAAGATAAGAACATTAAACCCCAAAAATGATGGGAAATCACTCTGTCTTCAAA
ACAATANAAAATAATAAAATCTAGTTATAAAGATTATATACCATTGTCACTAGTAAGAAG
TTGGCACTCTTATTTACAAAACATAAAGAAATTAGGGTTTAGGTCTGGCATGGTTGGTTC
ACACCTATAATCCCCANCCACTTT

Sequence 4575

Table 1

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTCACTCTGT
TATCCAGGCTGGAGTGCAGTGGCATGATCTTGGCTCACTGCAACCTTGGACTCTGGGGCT
CAAGCTATCCTATCACTTTAGCCTCCTGAATAGCTGGGACTACAGGCGCATGCCACCACA
CCCAGCTAATTTTCGTGCTTTTTGTAGAGACAGGATTTCACCATGTTGCCCAGGCTGGTT
AATCTTACTTTCAAATGTTACTGATGANAAAACAGGTTCTGAGAAGCTAAGTAACTAAAT
TTAAGATGAATTAGAACAGCAGATGGGACNAAGTCAAAAANGTTCTGCATCCTACTCCAA
GCTTTTTNTGCAAAANGCTATTTGTAAANGTNATTTGGGCTTNTTAAA

Sequence 4576

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGCCACTGTTCTAGG
CACTGGGGATACAGGAATGAACAAAATCACCCAAATCTCTGCCCTCCCAATTTTCTGGTA
TGGAGAGAAAGTTCTTTTGTAGATAGGGATGAGAATCCCACAGAAAACTCAGGAGTGATG
TAACAATGCAAATGCTCACAAAATCTCTTTCCTCATCTTTCATTCCCTATTTGGAAGGAA
AGGTTTCAAAGACATTGATGTTGTATAAATGACCATCTTCTTCATTATTTTATAAACATT
TGTCCTGTGCAGAGTAAAAACAACTGGACTGCATAACAAATTATACCTATTGAGAGTTGG
GTAAAGAGTTACCATTGGATCCAGTCCACCAACCCAAATGTT

Sequence 4577

CCGGGCAGGTACTCATCTGTTTACAAATGGTCTATGGCTGCCTTTGTGCTACAAGGGCAG
AACTAAATAGTTGTGAGATACCAAATGGACTCCAAAACCTAAAATATATATTTGGCTTTT
TACAGAAAAAGCTAGTTGAACTCTGCTGAAAGTTATAAACTGAATTTGCCTCATGGTAAG
TATTATACATAAAGAAATTCCTGCCTGTTTTTTCTTGATGGAAGAAAGAGGCAGGACCCA
GACTAGAAAGTATTGAGAGTCCTAGCTNGGTAACCTGNAGAAACAANTTTCAATTAATGG
AGAAGGAAGTTANAANCCTNGGGCCCATTCA

Sequence 4578

CCGGGCAGGTACTGAGTTTCAGGAAACAGTGAGATACATTCAGCAAAACAGTGGGCTTCA
TGCTGAAAGAAGTCACTCCAAGTAAACACACATNACACACACACACACACACACACACAC
ACACACACATACACACACCCGCAGACACCCTAGTGGCCAATAGGTCCTCTCACCAAAAAC
CTGTGATCAGGAGAGCANAAAGCCTCCCAGGGGTCCATCACTGCCCTTTCTGGAGCCCCT
TATCAGATGGCCAGCCCCAGGACAGCACTGTCTTGNTCCTGGTNCAGTCCAA

Sequence 4579

CCGCGGTGGCGGCCGAGGTACTTAAACAACTTGTCTGTTTTCTTTAAATCTTTTCCCTTA
GGTTAGATAATGCTGCTCATGATTGTGAGAGCACAGAAAGTTCTTTTGTTTTCTAGAATT
AAGTCTGCTCACCTGGTTTGCATTCTGCATCTGCCTTTCTTTAGTGCAGGGTAAGTGTCA
AGTCCCACTGTGGCCCAAAGTTTGCATTCTGCGTTAACCAAGTCACAATTAATGAGGTTT
TACTATAGGCACAAATGCTTAAAAAAAGAAAAAAACGATTGTTTTGTGTGGTTAAAATAA
AAACTTGTGGGGATTTTAATGTATTTCTTTGGTGAAAAATACATTAGTTGTTTGGTCTCT
AATTTGGATCACTTTCCCTTCTAGACTCTGAACAGGGAAAGTGCCTCCTGGAA

Sequence 4580

ACTACTATAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTCTTTCNTTTT
TTTTTTTTTTTTTGATAATNTTTTTTTTTTTTTTTTTNGCATCAAAAAGCTTTATTTCC
ATTTGGTCCAAGGCTTGTTAGGATAG

Sequence 4581

CCGGGCAGGTACGCGGGTCTGCGCTTGTCATCATGGCGACGCGGGGCCATGTGCAGGACC
CTAACGACAGGCGCCTCCGGCCCATTTACGATTATCTTGACAATGGTAATAATAAAATGG
CAATTCAGCAAGCAGATAAACTGTTGAAGAAACATAAGGATCTTCATTGTGCTAAGGTTT
TAAAGGCAATTGGTTTACAGAGAACTGGAAAGCAAGAGGAAGCCTTTACTCTTGCACAGG
AGGTGGCAGCCCTTGAACCCACAGATGACAACTCACTGCAGGCACTGACTATCCTTTACC
GGGAGATGCACCGACCGGAGTTAGTTACAAAACTTTATGAGGCAAGCTGTGAAGAAAGTT
CCCAATAGTGAGGGAGTAT

Sequence 4582

CCTCCACATGTCTGTCCCGTCTGCTCCNAGACTGCAGAGGACAGTCTTGAGCATCATCTT
ACTCACATTTTACTCAGAAATTTCTTATTGAGTCCTGCTAAATACA

Sequence 4583

AGGTACTTGAAAAGAAAGCATCTGTGGCTGTGCCCAAAAAACCGGAAGCCCCACGTGCAA
AAGTGCCTGAAGCTGCTCAAGAAGTTGTCCCAGAAAAGAAAATTCCCAAGGCACCAATCA
AAAAACCANGAAGCCCCCGCAGTTACAGTGCCAGAAGTTCCTCAAGAAGCCACAGAAAAA
GAAATTCCCGTGGCTCCACCCAAAAAAACCAGAAGCTCCAATTGTCCCAGTGCCTGAAGC
TCAAGAAGTTGTCCCAGAAAAGAAAGTTCCTAAGGCTCCTCCCACAAAACCAGAAGCCCC

Table 1

ACCTGCCACAGTGCCTTGAAGTCCCACAAGAAAATTGTGCCAGNAAAAGAAAACACTGGT
GCTTCCTAAAAAGC
Sequence 4584
AATTACGAACTTCACTTNATTAGGGNGTCCGAAAATTTGGNGNAAGACNTTGCNCAACNC
CGTCCGCGATGGGGNCCGGGTCGCGGCCGCGCCGGGGGNCCAGGGGNTNACCCTGTGTNT
NTATNTNTNTATNTGTATGTCTCTNTNTNTNTCTGGGTGAGGNCCTTCCTTGTGTGGGTT
AAAANANTTTNCTTTTTTTAATTGTNGGNCACAGGNGCAAGTTTNGNAAAAACCCCNCTT
AAAAAAAGTTTGGGGCTTTCCAACNAATACGCANGTTTGGCCCCCCTTNATTTTTTCCTT
TTTTCCAAAATTNTAAAANCTTAACCAANAGGGGGNAACCCAAANAANCAACCCAATTNT
TTNAAAAAAAGGCTTTGGGGAAGANATTAAAAAGNTNGGANCCCCAANATTTAATTGGGAA
ATTTTTTGGNCCCCCAAAAAAAATTNTTCCTTNANAAAAAGNNCCGGGCCAACCTTTCCA
ACCCCAATTTGNGAAAAAAAATTGGGNGGNAATTNAANAANAGGNGGGTNTTTAACCCNC
CTTTTTCTTGGGGGGGGGGGGNAATTTTTNTTGNGCCAACCCNTTGNCCCTAATTNGGAA
AAAATTTATTCCTTTNGGATNGGGAAAAAAAAAGAAGGGCCCTTTTTNGGCTTTTTGGGG
GGGNAATTTAATTTTTTNNGCTTTGGGAATTTAANGGGAAAGNTAAAATTNANGGGAAAG
GGNAAAAANAATTGGGGAAAAAAGGGGTTAATTTAAATTTTTAAAATTNNATTTAACAAA
GGGGAATTTANCCCCTTTAATTTGGGGAAGGGGGGGTTTTCCCCCCCTTTNGGCNCCCTT
TTTTTTGGNCCTTTTTCNTAACCCAATTTTCTNCCACAAGGNGGGCCTTTTTAANCCAAA
AAAAANCTGGGTTTGCNCCCCCCCCCAATTAAAAAAACCCANTTTTTTCCCCNCT
Sequence 4585
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AGATGGAGAGGCGTGGAGGCATGTGATGGTGCTGCAGCCAAGGCCGTGGGGCAAAGGCCA
GCCTCCTCTTCCTATTTTTATTAACCCGGGTCTTCTGCGCCCAAAGACTCAGCCTCATTC
AGGACCATATTATGTTCATACTTCTGCTGCTTCCAAGGAGTGTTGATGAAAAAGTGGGGC
CTTGGAGGGGTAGAGGCCAAGGGACAGTTTCCCCTCTGCCCTTTGAAGTTCACGATCTTC
CATGCAACAAAATTGTTTTCTGTGAAAAGCAGGAAATGAATAACAACAGCGTAGGTGCGT
TGGCTATGTCCGGTGGCATTTCTTCAGAATTTTCATTAATGACACCTG
Sequence 4586
TTGAGCTCCCGCGGTGGCGGCGGGACTGGCCTTATGTGTCNTTATAGCAGTGGACTGGGC
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CTTTAATGGTCTACCATTCAGCCAGAAGAGGTAACCTGGAATGCCCCNTCTTCAATTTCC
CTTGGCTTGGTNGGTTGGGGAATTGGTTGGAAAAAGGAAAATTCCTTGGGTTAAAGGTTN
CCGGGGGCCCCCTTTTTTTCCTTTCCAAATTTCCTTNGGGGGNCCAAAAANGGGCCCCCC
TTTAAATTTCCCTTTTCCCCCCAAATTTTTTTTTTTAAAAAANCCCTTTTTTNCCCCCCA
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TACCCTTTGGGGGGGGGGNCCCCTTNAAANTTTTTGGGGGGGGGTGTNCCAAANTTTTTCC
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NTTTTTTTNAAAAGANCCCTTTGGGGGCNTTTTTTCCCCAAAANANGGGNCCCCCCAAAT
TTTCCAAAAAAAATTTTTTTTTTTTTTTGGGGGGGGAAANCCANANNGGGCCCNAAAAAAC
CCCTTTNGGGGGGGTTTTTTNGGGGAACCCNAAAAAANCCCCCCNGGGGNTNGGGGGTGC
NNANATTTTGGGGNAAAAAANCCTTTTTCCCCCCCCCGGGGTTGGGGGCCCTTTTAAACC
CCCCCAAANGGGCCCCCCCAAATTGGGGCCCTTTTCTCCCCCCTTTATCTTTTTACNTTT
NGGGGCCCTTTTTTTTGGGCCCAAANAANAAAAATTTGGGGGGGCCAAANTTTTTCNAAAA
AATTT
Sequence 4587
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GGNAAGGGTCCCTTTCCCCCAAACCCCCGGCCGGGGGGNTTGGGGGGCCCGGGAGGCCCG
CCCGGCCCNCCAATTTCCCTTTNTTGGGNGGGGGTTTCCCAAATTTCCCGGGNAAATTGG
GNAAAGGNCCCCCTTTNCGGGCCCCCCCNTTGGGTTTGGNCCCCCNTTGGGGGGTTTCCC
CCCCCGGGCCCTTTTTGGGTTGGGAAAGGGGGGGGNAAAAAGGGGGGNAACCCAATTTTT
AAAGGNAAAANAAATAATTGGGNAGAATTNTTGGGAATTTGGTTTGGGTTNTTCCCCTTT
TTAAAAAAAGGGGGAAATTGGGGGGGNCCAANGGGGAAAAAAAACCCAAGGAAATTCCCC
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TTTTAACCCAANGGAATTTTTTTGGGAAAAAAATTTGGAAAAAGNTTCAACCAAAAAAAG
GTTTGGNAAGGCCCAATTTTTACCNCCCAAAATTGGGAAAGGAAAGGNGGAAAAANAAAA
CCNAANGTAAACCCGGGAAGGGAAAAANNAAAAATTCCNTTTTTGGAAATTGGGGGGCCC

Table 1

TTTTTCCAACCCAAAAAAGGNAAACCAATTTNGGCCCAAAAACCCAANAAAAACCCAAAA
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ATTTGGGAAAAGGGGGGCCCAAAGGTNCCCCAANAAAGGTNCCTTTNGNGGGGGGGGGGA
AAGGGGGGGAAAGGNAAATTTAAAAAACNCCCCAACCCGGNGGGGGGGGGNCCAAAAGGN
AAAGGGGGGGGGTTTCNAAAGGGGGGAAAATTTTTCCTTTGGGGGCCCCCCCCCCTTTGG
GCCCTTTGGGCCCCCCTTNAA
Sequence 4588
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GAATTANGGAAATAAGGGGGGGGCCAATTTCCCCAAAATTAACCAAAACCTTGGGAAAAA
ACCAAAACCCCCTTGGGAATTAAAAACCNAAAAAATTTTAAAATTTTNTTTAAATTTTTT
TTTTTCCAAAAATTTAAAAAAAAAAAAAAGGGGGGAAAAATTGGGCCCTTTCCTTGGGGG
TTTTTTTTTTTTTTTAAAAACCCTTGGGGGGCCCTTCCCCCTTTTTGGGAAAGGGGGGAA
AAAGGNCCCCCAAAGGNAAAAAAGGAAAATTGGGGGGCCCAATTCCCTTGGGCCTTTTCC
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CAAAAAGGGGAAATTTTTTCCCTTTTTTTTTNCCTTTTTAAACCCAAAGGGTTTGGGGGG
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GNCCCAACCCCCTTTTAAAGNNAAAAAAGGAAACCAAACCCAATTTGGGGGGTTNGGGGG
GTTTTTGGGGTTGGGCCCCAACCCAATTTTAAAAAAAAATTCCCCCCC
Sequence 4589
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AAGGCCGGGCCAACCNTTNCAACNCCAATTNGNAAAAAAAATTGGGGGGGAATTAAAAAA
ANGGGGGGTNTTAANCCCCCTTTTTTGGGGGGGGGGGGAATTTTTTGGGCCAACCTTTGG
CCAATTTGNGAAAAATTTTTCCTTTGGGTTGGNAAAAAAAAAAGGCCCTTTTTGGGGNTT
TGGGGGGGAATTNAATTTTTGGGGNTGGGAAATTTAAGGGAAGGGNAATTNATGGGNAAG
GGAAAAAAAAAATTGGGGAAAAAGGNTTNAATTTAATTTTTAAATTTAAATTTAAAAAGG
GGAAATTTAACCCCTTANTTTGGGGAAGGGGGGGTTTTCCCCCCCCTTGGGGCCCCCTTT
TTTTGGGCCTTTTTTTCCAAACCAAATTTCCCCCNCAAAAGNGGGCNNTTTTTAACCCAAA
AAAAAACCCGGGTTGGGGCCCCCCCCCCCAAANTTAAAAAAAAANCCAAATTTTTT
Sequence 4590
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CCCGGGNAAAAAATTNTTGGGGGGNNAAAGGNCCCTTTCCCCCCAANCCNCCCGGNCCGG
GGGGTTTGGGGGGNCCCGGGGGGNCCCNCCCGGCCCCCCCCCGGGGGNGGNCCCAAAGGG
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AAAAAGGNTTAANTTTAATTTTTTAATTTTAANTTTAAAAAAGGGA

Table 1

Sequence 4591
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TTTAATTTAAAAAGCCTTCCTTGGGCGAGGNTNAGGNAAGAAGGCCAACCCCAAAAAAAA
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GNTTTTCCCCCCTTTTTGGGTTTTTGGGAAAAAAAAAGGGAAAAGGGGGTTTTAAAGGGG
GGGGGGCCCNAAAGGGTTTNGGGGGGGTTTTTTTNAAAGGGAAAAAAAANCCCCCCCTTT
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GGGGGAAAAAAAAAANTTTTTTTNGGGGAAAANTTTTTTTTTTTNGGGGCCCCCTTTTGGG
GNCCCCNTTTTNAAAAGGGNAAAAAGGGGGGGGAAAAAAGGGGGGGGGGGGGNTTTTTAA
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CCCCAAAAAAAAGGGGGGGGGGGNAAAAAAAAGGGGGGGGGGGNCCCCCCCAAATTTNGG
GGGGGGTTNAAAGGGGNTTTTTTTGGGGTTTTTTTTTNAAAAGGGTTTTCCCCGGGTTTN
CCTT
Sequence 4592
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CCCCCGGAAAACCTTCNCCCCCCNATTTTTTTTAAAACCAGGGGGAAAAATTTTTAAAAT
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ACCAACCAAAGGGACCAAACCNTTCCAACCCCAAAAATTCCGGTTCCGGGGGGGGGGNAA
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ACCCCGGGAATTGGNAAAACCAAATTTTTTTTNCTTTCCCCGGGCCAACCCCNTTAACCC
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CCAACCNTTTTTAAAAGGGGGAAAAAAAAAAAAAAGGGAAAAAAAAAACCCCCAAACCCG
GTTTTTTGGGGGGGGGTTGGGCCCCCNA
Sequence 4593
ATAACGACNTNCAACTTTATTAGGGGGNCGGAAAATTTGGGGGNAGNCCTNCCCAACNCC
GNCCGNGNTGGGGGCCCGGGGCNCCGNAAGGGNTTACCNTNANCTTAACCCTGGNCNCTT
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CCCCTGGNATTAAACCAATTGGGGGAAAAATTCCNCGNTAATTTTAATTTTAATTNCTTT
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TTCCAAAAAAAAAAAAAAAAATTTGGGNAAAAACCCCAAAAAGGGGAAAAAAAAAACCC T
TAANAAAAAATTTTTTAAAAAATTTAAAAAATTTNCCAAATTTTTTTTGGGGTTTAAAAA
GGGAAAACCCTTTGGGTTNGGGGGGGTTTAAATTTTTCCCTTTTTTAAAAAAAAAAACCC
CCCA
Sequence 4594
GCCGCCGTTAAATAACGAACTNCAACTTTATTAGGGGGNCCGAAAATTTGGGGGAAGACC
TNCCCCACNCCGNCCGGGNTGGGGNCCGGGNCNCCGGGGGNCCANTTTTTCCTTNCCCCC
NAAGGGGGGAATTCCTTCCTTGGGTGGCCNTTTCCCCTTTTTTTTTGGNTGGCCCTTTNCC

Table 1

CTTGGNTGGNTGGNTGGNTGGGGGAATNATTTTTTAAAAAAGGGGGGGGGCTTGGGGGA
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CAANGGCCCAAAGGGCCCCCCTTNTTTTTCCCTTTTTAAAATTTTTTTTNCCTTTCCAAA
CCCCCTTTCCNTTGGGTTTAAAATTTCCCAAATTTCCAAAGGGGGGGTTNCCCCCTTTTT
TCCCCCCCAAACCCCCAAATTGGGNCCAAAGGGAAAATTCCCTTTTTTCCCCCTTGGGGG
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AAACCCAAAAAAAAATTCCCTTTTCCCCCCCCCCCCTTTCCTTTGGGGTTNTTTTTTTTT
TTTCCTTTGGGNAAATTGGGNCCCCCAAAGGGCCCCTTTTTTCCTTTCCCGGGGGGCCCA
ACCCCTTTTTGGGGCCCTTAAAATTTNTTTTTCCCTTTCCCCCCCCCCGGGCCCGGTTTA
AACCCCCTTTTCCCGGGGGGCCCCCCCGGGCCCTTTCCTTTAAAGGGGAAAAAACCCTTT
AAAGGGGTTTGGGGGG

Sequence 4595

CCGGGCAGGTACGATATGAAACTACAGTTGTTGGATAGCTCGAGTAAAATAACTTTTTGT
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CGAGAAGAAGTGATGAAACTCCTCAGTATATTTGAGTCTCGGTTGTCATTTCTTCTCCTT
CAGTCCATTAAACTGCTATCTTCAACTAAAAAGAAAACAAGGTAAATTAAGTGGTTATTT
GTAGGAATTTCTTTCCTAGCACCCTACCTATAAAAATTTTCTCTACCAACATCATAAAGA
AAAACTAGGGGCCAGGCACATTGGCTCACACCTGCAATCCCAGCACTTTGGGAGGCCAAG
GCAGGCAGATCACTTGAGTTCAGGAGTTCGAGACCAGCCCGGCCAACATGG

Sequence 4596

CCGCGGTGGCGGCCGAGGTACTGGCTCCTAACGTATTCTTCCAAAGCACACTGAGACTTT
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AAAAACAGAAGAAGAAGAAGAAAAAGAAGAAGAAGAAGAATTCAGTCATCAGATTAA
GAGGTTTGAATTGGGTCACATGAGGTGTGTGCACAGAGCTCTGTCAAACTGCCCCCCCCG
CGTACCTGCCCG

Sequence 4597

CCGCGGTGGCGGCCGAGGTACGCGGGGAGAGACAAAAACAGAAGAGGGGAAACATGTTTC
CTACTGACGACAGGTGATTACACGTGTGCTTCTGATGGAGGGATCAGGAAAGGATATGAA
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GTAACATCACCCTACAACTCTCCTTGTCCTCTGAGGCGCTCTCGATCTCCCATCCCATCT
ATCTTGTAAACCAAACAACCAAACTGCATCAGTCGGCTAAATTGTATTAATTCAAGTGCT
GTTTACCCCATAATGGAAATAATTAAATGTAGAGTTACTCCAGGCTCCATTAATACAGTA
TAAATCTTGCATGATACTACAAATTTGAAGTCAGAAAATGCCACTTGGGTAGCT

Sequence 4598

CCGCGGTGGCGGCCGAGGTACCAACNGNTATANCACNATNCAACNGGCATNCCTCATGGA
ANNNNCTGCTATCTGNNTTCATNAANGNCNGCATNNACNGNACCNCCNNNNNCANTNCCN
NANGCTNACNNANNNACTCNCACACACNCATGGCTCACNNTGCNNTCCAAAAAGCNAGNG
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GGTNAAAGACTACATGGCACATGCTNTCATTNTGNTAACTAAAGAAATAACTCCTCTATT
GGAAAATTANCTGTTCANGCAGATTAACGGATGTGTCCACCTGAANGGNGACCCCCACTG
TGGCCTTTTACTAGCAGGAAAGGGCT

Sequence 4599

CCGCGGTGGCGGCCGAGGTACCATCAACTCACANATACTAAAAGGTTTCATGATCAAAAT
GGCTACTACTNCCCCCANAACCAAAACAGAGTAAAGCACAAGTCTTTGGCTCTCCTTTAA
AGAAAACAGCAGGTTACCATTCTTAACCAGACCTTTGTTTGNCTACCAGAAGGGCAAATA
CCACATTTGTGCATCACTGAGTAATAACACCA

Sequence 4600

GCCCGCCCGGGCAGGTACCCCAGCNTGATGATGTTCCACAAAAGTAGCAAAACATACACA
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AGGGNGAACCANGGGAATTANGNAAAGGGTTAGCGTTANATTATAACCACTTTCAATGGT
GGGGTTNATTTANACCNTCTAAGNGNGNCAAGGAATAGCTGGNTCAAAANTGCTTATTTT
TCTCCAAAAGGGNTTTTTAACGCCCAATTTATAATTAATNAAGNGGGTNANTTAATANAN
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Table 1

NTAACTTANTTNAATTGGGGNGGNTNTTAAAATTAACCNANCCAAANGCNANCCAATTTA
AC
Sequence 4601
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AAACACCATGAAGATAACTGTTCTTGCTGATATTCAGCTATTTTTCTTGAATAAGTGCTA
TGTGTATAACGCTTTTGGCTAATTTCCAAAGTTCTGAAAAAAGCTGATTTTGACTATTTT
TGTCCATGTTTTCATTCTTTTTGTGAAGATGATTTTCAGAGGTCCTTACTTTTTTTTTTT
TGGCTGATGTCACCAACATGTAGCTTTTTAAGTTTAGGTTAATTAAAAGTAAATAATTAA
GCCTAGGCAACATAGCAAGACCTCATCTCCTGAAAAAAAAANAANAAAGGTACCCTCGGC
CGCTTCTAGAACTAGNGGGATCCCCCGGGCTG
Sequence 4602
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGANACTTTTTATTC
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TTCTAGAAATTAACAATGAGTCCTTTTATAGCACTGNACCTTTCTCTTCCTGCCTTCCCN
ACCTCCACCCCAAACTTGCTTTGGGTGTTCTTTAATCTTTCAAGGGAGTGATAAATGCCA
CAAACTCTTAAATAAAGGGCTGAAATGGCAGCGTATGACTGTTGTTGACGTGCCTTTAAA
GTAGTATTAGTCTTCTAGAATNCTAATCTAATTNTTAGAAACAGAAAACAGAGG
Sequence 4603
NCGNCCGGNCAGGCACTCTGGTAAGCTTGTTGTATGTGCCAAGCTGAAGCTCCCTCAGTA
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CGGCAATTGTTTACNGTNGGAACGNAAGNCCATTTTACNTTTTTCCAATTTTCCCCCCCT
TG
Sequence 4604
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CCATCCCAAAATGCTTCAAGTAAAAAATAACAAGTTTAAGGGGTTAAGCACTTTTAAAGT
CTGATTAAGGGGGTGGGGGGAAAAAAAGAGTAACTACCAGCCATTTCTCCAATGGACATC
TCTTCCACAGACCTCAACGTGAGAACTGCTCTAGTTTCTATAAACTGTAAACCTGTGGTG
GTCTGATTATCCTGATATTGGATTTTCTTGTTTTCTGTTACACCTTGAGTCATTTGCCTT
TAGGATTCTAGACAGACCTAAGGGAAAAAGAACTGAAAACATATTTTGCCCCCACCCCCA
CAAAAAAAAAATTACTGAAAACTCC
Sequence 4605
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATAAATTTTCC
AGAATCTTGCATACAGTCGCCTGTGCTCTCTTAAATGGAACTAAATACCTGGCTGGTCTT
TTTTCTTTTAACTTTTTTTTGTCAACGAATGTCTTTGTTTTAGAAAGAGGCATTTTCAAG
TGTTTTGATGTGACCCACCGTGACCTAAAACCATTAAAAGATTCTAAGCAAAAATAATAA
GGCCAAACTTTAGTGTAAATAGCATGAAAGGCTTGAAAACTAAATAAAAAATTATTTTTT
CCTTTAAGAGTAAATAGCTAGGCTAGGCATGGTAGTTCATACCTGTGAACCTGTGAACCA
TTGCTTTGGGGGGCTGAGGTGAAAGGATTGCTTGAGCCCAGAATTTTCAAGACGAGCCTG
GGCAACATAG
Sequence 4606
ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTCAGTT
TTGTCCTCTTTAAAATAAGGAAAATATACCTTGTAGGGTTACTGTGAGACTTAAATGAAT
TACTAAATGTAAAAAACTTTATAAGATTCTTGGCACATGGTAACTGCCATACCTATTACC
CATAACTAACTGATTTTTTACACAATTTACTATAATATAACCACAATTCTTATTCAAACA
TCCTGGACCTAGCTAACAGTGACACGTGATGATTTCTGAATGAGTTTTGAGAAGAAACTG
AGTCCCAAAGAGTGCAACTTTCTCCCACTGTCAGAAGGCCTACACACCACTCTTCTCAGA
GAGGTGGAAGAATTGAGCTGTGCTTTGGAACTCTCGATTACATCAGGGAACAGATTGCTG
ATTGGTGACCAGGATAGNCAAGTGTTAATAG
Sequence 4607
NCTTAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCTATCAATTCAGGTT
TCCTTAGCAAATAAGTGCTTCAGATATACTCGCAAGGGCTCCTGAATTGGAGTTTTCTGC
ATCATCTCCATAAAAATATTTTTTCACCTCTAAAGTCATCAAAGAATTGAAGCAGGCCCT

Table 1

TGGGAAATATCCTTAAGGGGAGAGAGTGGCTCCAAAAATAACCTTCCTTCCAGCACCACA
CCACCAGCTCAGAGAATTCACTTCACGGTGGGACGGTCACTCAAAGTCTACTGTGAACCT
CATCCCCAAAAAGGTAATGGCAAAGGCTAGAGGAAAATCCTAAACAATCACCTATGCCTT
GTATCTTTCTCTAGAAACACAATCTACTAGTAGAAAAACCAATTTGAAATTTTAAAAATG
TGGATGCTACTCATGAGGGCTGTCATCAACCGTA
Sequence 4608
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACNNCNAGGTNTTNN
GGCAACCANCGCAAGGGCTTCTGCTGAGGGGGCAGGCGGAGCTTGAGGAAACCGCAAATA
AAGTTTTTTTCTCTTTGAAAGATACTAGATTAATACAACTACT
Sequence 4609
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGGTCTACAGGGACAAGCAGTCTTTAAAACGA
AACTCACCTTCAGACCTCACTCTACGGACAGTGCCACACATAGAAAGATGACTCTGTCAC
TTGCAGATAGGTGTTCAAAGACACAGAAGATTAGAATCTTGCCAATGGCTGGTCGTGATC
CTGAATGCCAACGCACAGAAATGATTAAGAAAGAAGAAGAACGTTTGAGGGCTTCCATAC
GTAGGGAATCTCAGCAGCGCCGAATGAGAGAGAAACAGTACCAGCGGGGGCTGAGCGCCA
GTTACCTGGAACCTGATCGATACGATGAGGAGGAGGAAGGCGAAGGAGTCCATCAGCTTG
GCTGCCATTAAAAACCCGATATAAAGGGGGCATTCGAGAGGAACCGAGCCAGAAATCTAT
TCAT
Sequence 4610
CGCCCGGGCAGGTACAGGTGGGTGCGATCTCAGCTCACTGCAAGCTCCGCCTCCTGGGTT
CACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCATCTGCCACCACG
CCTGGCTAATTTTTTTTGATTTTTAAGTAGAGACGGGATTTCACTGTATTAGCCAGGATG
GTCTCAATCTCCTGACCTCATGATCCACCTGCCTTGGCCTCCCAAAGTGCTGGGATTACA
GGCATGAGCCACTGCGCCCAGCCGAGTCATTTTTTAATACTACTGCATGTGAAGTTAACA
CAATCATTCCCAAATTGAAGTTTTAGATGGGCCCTCAAAATTTTTAGGATATGGTTTTCC
TACANGTTTATATTGAAAAGTATGGGGTATCTCCTATTACTCCTCTNTTTATTNGTCTTA
AAGGAAAAAGGGAAGAAGCCAAAAAC
Sequence 4611
CCGCGGTGGCGGCCCGCCCGGCAGGTACTTCTCTGCAGCCTTAAACTCCTGGGCTCAAGC
AATCCTCCCACCTTAGCCCTCCAAATAGCTGGGACTACGGACATGCACCATTAAATTAAA
AAAAATATATATATATACACACACACACACACACATAGTGATGTGGTCTCACTCTGTTGC
CCAGGCTGGTCTCAAATCCTTGGCCTTAAGCTATCCTCCCACCTTGGCCTCCCAAAGTGC
TGGGATTACAGGTGTGAGCCACTGTGCCTGGCCTGATAAGGTGATATTTGAGCAGAGACA
TTTAAAAAGTGAGAGAAGCAGCCATGTGGTTATCTACAGTCCAATATTCCAGCACAAGGG
ACAGAGGGGGAACATACTTGGTGTGTGTGAGTAACATGGAGGAAGCATGGCTAAGTGGCA
TGAACAAGAAGGTATGGTANGTGCAAAAGGTGTAGGTGCAACAAGTGGTANGTGCACANG
GTGTANGGGCAGNGGATGTANGTTCAANGGATGTANGTGCANACAAGNGGTAAGNGCAAA
CAGTGGTACGTGCCANAGCGTGTNGATGCAAACGGATGTAGGTACCT
Sequence 4612
CGCGGTGGCGGCCGAGGACTTTTTTCTTTTTTTTTTTTTTTTTTTTGGGGGATGGAGTC
TCACTCTGTCTCCAGGCTGGAGTGCGGTGGCGTGATCTTGGCTCACTGCAACCTCCACTT
TCCGGGTTCAAGCGGTTCTCCTGCCTCAACCTCCGAGTGGCTGGGACTGCAGGCATGTGC
CACCACACCTGGCTCATTTTTGTATTTTTAGTGGAGACAGGGTTTCACCATGTTGGCCAG
GATGGTCTTGATCTCTTGACCTCGTGATCCGCCACCTTGGCCTCCCAAAGTGCTGGATTG
CAGGTGTGAGCCACCGTGCCTGGCCTAAATAAATAATTTCGTAACATATACAATCCACTT
CCCACTAAAGAATTAAGGGTCAAAGACATTCTATTTGAACACTTGCAATTACCTAAATCT
AAGTTGGCCTTTGGTTGATAGANCCTCTGCCTCGGAATTTCAATGAAGTTTTTTTCT
Sequence 4613
TANGGCGAATTGGAGCTCCACCCGCGGNGGCGGCCGAGGTACATACTCCCATTCCACAGC
TTAGTCTAACATGCAAAANGGGCATGATTAGAGATTGTTGGTCATTAAGAAGAACAGGAG
GAGACGTTCTGGAGCCTTGGCACTATGCCTGGGGAAGAGAGGATCTCAACACCCCTCAAC
CATCTCTGGGCCAGAGGAAAATCACCTANGGGTNGTCCTAAAGAGTTCCACGGGAGAAGA
NATTATGCTGTCTGATGACCCCTTACNGANTTCTNCAGGTATGTCCCTACTTTTTGNNGT
CCAGCTGAGTTTATNAAACTTGTNCTGCTTCTGAGGTCGGTTTCTTTTNTACCATGTGAA
GGTTANAANATCTGCTTTACTGNCTTTGCTCTCTNTTCTTACTTTTCCCAGAATTCCTAC
ACTTACTACATAACTAAAAACTGGA
Sequence 4614

Table 1

TANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGAATTTCTGTCA
GTTAAGGGGTTCACTGCTTTGGTGGAAATTGGTGGAAATTGCTAGCAGGTTCCACGATGT
TTATTTTTTTCTCCATGTTGTATATCATTACCATTTCACATACGCGTTTCTATTTTTCTT
CCTCTCCTCCTGATCTCCTTAAAAATGAATCTACAAGTTGGTGGCTTTTTCCCCCTCCTC
TTTGGCCAGTTCCACAGTTCAGTTCTTCCTGAAAACAGGGATGATGAACTTGTAGGATCA
GGACAAATGTGTGTTTTTCAAAAACTTAAGGCTGGGTGTGAAACACCTTCTGTGGACAAG
GATTTGTAAACTTCTCTCCTCCCTCCAGCTGCGGCCCCAAGCCTAACTGATAGTTACTTG
ATTCAAGTGTGCTAGACACTTAAATAGCATCTATGTCTCTTTCAAGGGAATTTGNCAAAT
AATGCTGTTTAACTAATTGTTGCAAGCAATTGCATATTAACAAGCTGTGATTTTGTTGGA
CAGCAANTATTATGGCCAAAAGCCAGTTTCTTTGGCATTTCAAAAATAATGCAATAAAAA
ACTAAGTTGAGGGTAACCTTGANGCTGGAAAATGCCNTTTTCA

Sequence 4615

AGGTACTTAGGGTAAGCATTAACAATATTATTCAAAATGTTATATAGAGTTCAACTGTAT
ACAATAGAGCATTTATTAAAGTGTGTCCAAAGCGCTTATAAATAAAGCATCTTCGAGGCA
GGCGGCTCACTTGAGGTTAGGAGGAAAGCAGACTGGCCAACATGGTGAAACCCCGCCTCC
ACTGAAAATACAAAAAATTAGCCAGGCCGTCATGGCGCACCTGTAGTCCCAGCCACTTTT
TAGTATTTTTAGTAGAGACCGGAGTTTCAACATGTTGGCCAGGCTGGTCTTGAACTCGTG
ACCTCAAGTGATCCGCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCCGCGAGCCAC
CATACCCGGCCTCTTATACAATAAAGAGATTTTTTTAAAAAAAGATATAAATTCACACAT
ATGAGGAAAACTGGAGAGGAAAAGATAGCAACAAAAATTTTGGAAACTGGAAAG

Sequence 4616

CCGCGGTGGCGGCCGCCCGGGCAGGTACAAAATTAATGGTGGTTTTGGATTACGAATTTT
AAATTATTATAACTAGGCCCAAACACATCTTTATCAAAATAGGAAACGTTACAATCAACA
CATTTTTTGCCAATGAGAAATAAGTTTGTTTATTCCTGTAGCCGTAAAAATCCATGCTTC
GGGGATTCGATGAACTCTTGGAAAGCATTTTCTGCATCCTGATGGTTGTGGAAGCATTTT
CCCTGCAAAAAATTTTCTAGATGCTTGGAAAAGTGGTAGTCGGTTGGTGAGAGGTCAGTT
CAATATGGTGGATGAGGCAAAACTTTGTAGCCCAATTCATTCAACTTTTGAAATGTTGGT
TGTGCAACCATGTTGTTCGGGGTGTTGTCGTGGAGAAAGAACTGGGACCCTTTCTGT

Sequence 4617

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGTATC
TCTAGCCGGGCCTGAGCTGCGCTAGCACCCCCCCCCAGGAGACCGTTGCAGTCGGCCAGCC
CCCTTCTCCACGGTAACCATGTGCGACCGAAAGGCCGTGATCAAAAATGCGGACATGTCG
GAAGAGATGCAACAGGACTCGGTGGAGTGCGCTACTCAGGCGCTGGAGAAATACAACATA
GAGAAGGACATTGCGGCTCATATCAAGAAGGAATTTGACAAGAAGTACTAATATTTAAAC
TGAACTGTTTAATGCCTAAATTTTATATATAATTCTACTTTAAAAATAAGCCTTATGTCT
TTTATACCAAATATGAAGTAGTTTTCTAAAGCAATGAAATTAGGAAAAACTATATAATTT
TCAGTATCTGATTATACTGCTT

Sequence 4618

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCTGCCTCCTGCTTGC
CCACAGCATGGGGTTAACGGCTGAAGTTGGGCAGCAAAGCCTGAACTGTGTTTTCCTGTT
GGCAGGGCAAATTCATCCGCATCAACTTCGACGTCACGGGTTACATCGTGGGAGCCAACA
TTGAGACCTATCTGCTAGAAAAATCACGGGCAATTCGCCAAGCCAGAGACGAGAGGACAT
TCCACATCTTTTACTACATGATTGCTGGAGCCAAGGAGAAGATGAGAAGTGACTTGCTTT
TGGAGGGCTTCAACAACTACACCTTCCTCTCCAATGGCTTTGTGCCCATCCCAGCAGCCC
AGGATGATGAGATGTTCCAGGAAACCGTGGAGGCCATGGCAATCATGGGTTTCAGCGAGG
GAGGGAGCAGCTATTGTAAGCCTCACA

Sequence 4619

TGNGGCGGGCGCCGGGCAGGNACCTTTGATCTTATAGATACTGGGGAGTGGTANGTGGTA
GATAATGTCAAGTAACCGCCCTCATGGTGTGGGTGAGGAAGTGAGGCCTTAGTGTTGNTT
GGACTGTGCTCANCCACACATTCTTCTTATTGCCACNCTCCCCAAACAGTGGAGGGTTCT
TTTATCATTGGGACANTTCTCAGATCAATAAAGCCTTTGNCCANANAGCTAAATNTAAGG
CT

Sequence 4620

CCGCGGTGGCGGCCGAGGTACTAATCTGGGCATTGTTCTAGGCACCTGAAATAAATTATC
TCAATTCATCCTTCAAATAACCCAGTGAAGTAGATCATACTATATCCCACTTTATAGATC
ATACTGTGTATCCCATTTTATGGATGGGGAACCTGAGGCTCAGAGATGAGAAATGATCAT
CCCATCCTTCCACATNCACTCAACTAGTAAACAATTNGGGGCTAAACTTCAGCTCCAGCT

Table 1

690/863

CCATGCAATTCCAAGTCCTCGTTGAACCACTTTGTTATTGAGCTTGCTCCAACTGATCTC
CTGTGTCTCTGGCCATCCCATCGTTTCAAGTAGTGCCCCAGTTTGAAAGTCCACTTCATC
ATCAGGCATCCAGTGCCTTCCAGCCTTTAATTGTCTCCTATCAAACTGGAAACAATTAGT
CTGAGAAAATCATCCATGCCAGTGAATTAATTTATTGAATTTGT

Sequence 4621

ATAGGGCGAATTGGATTTCCCCGCGGTGGCGGCCGAGGTACTAAGAAAAATTGTTTTGCC
TTGAGATGCTGTTAATCTGTAACTTTAGCCCCAACCCTGTGCTCACGGAAACATGTGCTG
TAAGGTTTAAGGGATCTACGGCTGTGCAGGATGTACAGCAAAAAAGAAACTGAGAAGCCC
AAACTGCTTTCTTGTTAACATCCACTTTATCCAACCAATGGGGGAAACCTTCTTATACTT
TGGTTCCATTATGAAGTTGGGACAATTGCTTGCTATCACACCTGGCAGGTAAACCAATGC
CAAGAGAGTGATGGAAACCATTGGCAAGACTTTGTTGATGACCAGGATTGGAATTTTATA
AAAATATTGTTGATGGGAAGTTGCTAAAGGGTGAATTACTTCCCTCAGAAGAGTGTAAAG
AAAAGTCAGAGATGCTATAATAGCAGCTATTTTAATTG

Sequence 4622

NGCGGGGGCAGCTGAGTTAGAGTCCCAACTCTTGGACTCCATTTGCTATTCTCTTCTTTC
TCCCCCACACCTATCTGGTGGTGGTAGTGGGCGTNNATATTTGCGNTCCTTTTCATTCAA
TTCCTAAAATCTNTNAAAAAATTTTTGGGGTTGGGGGGGTANTTGGGGGAAGGCAGGGAA
AGGGGAAAAAGGGAGAAGTAGTAGCTGAAAGAGCAAGAGGAGGACATGGAGAATGAAGAA
GAAGATTAACCTGGAGTTAAGGAACAGATCCCCG

Sequence 4623

CGCCCGGGCAGGTACGCTNGGGGCTCTCGGNNTTAGNGNGCATGCNTTTCGGCTCCACCA
CGAACATGTAGTAGAGGNNCCACATNNNCATCGACAGCAGTAGCAGAAACGTCAGGCCGT
AGCCGAAGCCTCGGAAGGAGCGGCCCACGGCAAAGAGACATGGGCTTGCNATGTTGCCAG
TCTGGGCTCAAACTTCTGGCCTTGGGTGATTCTCTCACCTCAGACTCCTGAGTAGCTGGG
ATTACAGATGCGGGCCACCACACCTGGCTACCAGTGTGCTTTTCTTGGAGAAAGAAGAAA
AGAAGAAAGAAGGAAGAAGAAGAAGAAAGAAAGGAGGAAGAAGGAAGAAGAAGAGCCAGT
GTGATAATACATTGAGTGATTTTTTAAAAAGTGCATATATGAGCAAAAGGTTATTTTTCC
3TT

Sequence 4624

TAGGGCGTTTTGGNGCTAACCCCGGTGGCGGCCGCCCGGGCANNTACGCGGGAATGTNTG
GAAAGTCTTTAGNTTAATGAAATTTACTTCATAAGCATTCAATAAATATTTGCTATTATT
ACTGATGGTTAATATTGTCAACTTGATTGGATTGAAGGATACAAAGTATTGATACTAGGT
GTGTCTGTGAGGATGTTGCTAAAGGGAGATTAACATTTGAAGTCAGTGAGCTGGGAAAGG
CAGACCCACCCTTAATCTGGTGGGCATAATCTAATCAACTGCCAACGTGGCTACAATATA
AGCAGGCAGAAGAATGTGAAAAGAGAGACTAGCCTAGCTTCCCAGCCGACATCTTTCTCC
TGTGCTGGATGCTTCCTGCCCTGGAACATCAGACTCCAAGTTCTTCAATTTTGGAACTCA
GACTGGCTCTCCTTGCTCCTCAGCCTGCAGACGGC

Sequence 4625

CCGCCCGGGCAGGTACGCNNAGGAGTCTCCTCCNTATCGCAGCTGAANNATCTGTTGAGC
GCTTCAGGAAAGGCGGACAGGCGACACTAACAGGTGAAGATCTCGGGAGACCATGACTAA
GAAAAGAATTGCTGTGATTGGGGGAGGAGTGAGCCGGGCTCTCTTTCCATTAAAGTGCTG
CGTANAAAGANGGCTNGNGAACCCTGTCTGCTTTTGAAAGGGACTGATGACATCGGAGGG
CTCTGGAGGTTCCAGGAAAATCCTGAAGAAGGAAGGGCCAGTATTTACAAATCAGTGATC
ATCAATACTTCTAAAGAGATGATGTGCTTCAGTGACTATCCAATCCCAGATCATTATCCC
AACTTCATGCATAATGCCCAGGGTCCTGGAGTATTTCAGGATGTATGCCAAAGAATTTGA
CCTTTAAAGTATATTCGATTTAAGAC

Sequence 4626

ACTACGAAATGTTTATTGATTATATTTCCAGCTTTAATTTTCTTGAGTAATTTAACTGAA
TTTACACAGTTTGCTTCATTGTATTTTCAAACAAATAGAAAATAAACTTATTAGGAAGCA
TTTTCTTAAAGTGTTTTTGCTGNCTTNTCTATCTGNTCNTNANGGTTTTGGNCCTTTTNA
TTGAGTTTTCATCGCTTTTGATNGTCAGGGCTTATTTAATCTCTAGTGCATGAAAGTCTC
ATATGTAAAAAATGATTATTCTGAATTTAATCTGTCATTGGTCATACTTCTAAGGTGTTC
AACCTTATAAAAAATAATATGACTATCAAAAAAGAAGAAACCCTTACCATTATGTTCTAG
GTANTAAAAGTTTTCCAAGGNACAGNTGTNTCACNTAGGTTCTACCATTAGACC

Sequence 4627

CGGTGGCGGCCGCCCGGGCTTGTACTTTTTTTTTTTTTTGANNNAAACATTTCTGAATAA
NTATAATTTTTAATGTCCANAATGTGTAATACAAGGGCCAGAGCTTCCTCCTGGACTCAA

Table 1

TTTTATAAATTCTCAATTGGTTGGNGAGGCCAATAGGGATACTTTTTCNTGGCAAATNGG
GNACNNGGAAAAAGCTTCCATTCAAAGTCCCTCAATNGGTCATCNGAATCAAAATGGAAT
TAAGTATCTTNATCTNCTCCATCTCTTTCTNATATTCTACAATCCTGGCCTTTTGAGAGA
GACACCCACTCAGC

Sequence 4628

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACTTNNTTTTTT
TTTTTTTTTTTTTTTTTTGGAGTANAGTTTAATTTAAAGCTCATTGATCATTTGAGCAAAT
CTCTGGAGGGCAGAACAAG

Sequence 4629

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGACCTGGACGGAAATGGCTAT
ATCAGCAAGGCAGAGATGCTAGAGATCGTGCAGGCAATCTATAAGATGGTTTCCTNTGTA
ATGAAAATGCCTGAAGATGAGTCAACCCCAGAGAAAAGAACAGAAAAGATCTTCCGCCAN
ATGGACCCCAATTTTNAGACNGAAAACTCTNCCTTGGAAGAGTTNATCCCGAGGAGCCAA
AAGCGACCCGTTCATTGTGCGCCTCCTGCAGTGCCGACCCGAGCAGTGCCGGCCAGTTCT
GAGCCCTGCGCCCACCAATCGAATTTGTANAGCTGCTTGTGTTCCCTTTTGATTCTTTCT
TTTTAACAAATTTTTTTTTTTTTTTTGCCAA

Sequence 4630

CCGCGGTGGCGGCCGAGGTACTGTAAATGTGTTTTCTCTTCCTTATGATTTTCTTGATAC
ATGTTCTTTTCTCTAGTTTACTTTATTGTTAAGAATATACTATATAATACACATACAAAA
TATGTGTTATTGCCTGTTTATGTTGTGGGTAGGGCTTCTGGTCAACAGTGGGCTACATTA
TCGAACGGTCAACTGTATCCTTAACTTTTTTTCCTCAAATACAACTTTCAACAATTCTGG
CTTTAGCTAAAAAACTTTAGCTAAACTAAAGAACTTCAGCCATTACTCTTTCAGCTCCTT
TATGTTCACAGACCAGGAGGTAGACCTCAANAAAGTATATTTAGGTGTTCCTCCTAATAT
TCCTTCCAGCCCCCCTTTNCTACAGCTTTGCCTATTTTCAAAC

Sequence 4631

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTTTCCTTTCAGCG
GAGCGCGGCGGCAAGATGGCAGTGCAAATATCCAAGAAGAGGAAGTTTGTCGCTGATGGC
ATCTTCAAAGCTGAACTGAATGAGTTTCTTA

Sequence 4632

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGAGGGAAAACATCT
TTTTTATTATTATTATTTTTATTTATTTATTTANAGACAGGTTCTTGTTCTGTTGCCTGG
GCTANAGTGCAGTGGTGCAATCCTAATTCACTGTGGCCTCAAAATTCCTGGGCTCAAGTG
ATCCTCCTGCCCCACCCTTGAGTAGATAGGACTACAGGCACACACCACCATACCTGGATA
ATTTTTTTATTTTTATTTCGTANAAACGGAGGTCCAGCCAAGTTCCCCAGGCTGGTCTCG
AACTNTTGGCCTCAAGTGATCCTCCATGCCTGGGCTGGAAAACATAACCTTATGGGGAAA
GTTCCTAAAAATGGTTGAANAACAAGACTGAAGGCTAGAATATGAAAGCTT

Sequence 4633

CCGCGGTGGCGGCCGTCTCCACCAGAAAACCATCGCCAACTCCTGCGATCAGCTTGTGGC
TTACAAACCTTGTTTAAAAGCTGCTTACATGGACTTCTGTCCTTTAAAAGCTTCCCCTTG
GCTGTGGCCCTCTGTGTATGCCTGGGATCCTTCCAAGCACTCATAGCCCAGATAGGAATC
CTCTGCTCCTCCCAAATAAATTCATCTGTTCTGGAGAGCCTATCTTTCTGAGGTTGACAC
TTATCTTGCAGAATGGGGTTCCCACCCATCTTTGATCATGAAGGAAATCTCAGATTTAGA
ACTATGTTGCCCAGGCTGCTCTTGAACTCCTGGGGTCAAGCAGTCTACCTCGGCCTCCCA
GAATGCTGGGATTACAGGCGTGAGCCACCATTCCCAGCCCACATTTCTTAAAAAT

Sequence 4634

CCGCGGTGGCGGCCGAGGTACGCGGGCATGCAATCAGTTGAGAGTTCAAATGGAACAAAA
AGCCAAAGGAAGGGCAAATTATCTCTCTCTTCTTGAGTTGTCACATCCATCTTTTTCTGC
CCTTGGACATCGGAGCAGGGCCCAGTGCACCAGGTTTTCTAGCTCTCAAACTTGTGAATG
GTATCTCATGGGACTTCTCAGCCTCCATAATCATGTGAGCCAGTTCTCGTAACAAGTTCC
CTCTTACGTCTATATACATAAAATCTATCTATATCCTCTCTTTATGTCTCTCAGGAGAAC
TCTAATAATGCATTAATCAAATATTACAAAAATCTTACGATGAAAAGCAACAGTATCCCT
CTACTTTGTTCTCTAACTCACATCTATTCCCCCAAACAACCTCTTAACCATTCTGTTTTA
ATAACTCTGAATAAT

Sequence 4635

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNGNATTTTTAGTAGA
GACAGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCTTGATCCGCCCA
CCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCCATTCCGGCCTAACGAAG

Table 1

ACTTATTTTTACCTCAACTANNATGGGGGTTCAATTCAATTTTGCTTACCTCANCCCGTG
TCAAGGGAATTAAANTTTGGGGCCCCTTGGGGAAATTTNCC
Sequence 4636
CCGGGCNGGTACAAACCCTACTTTTTCTAGGGCTGTCATAACAAAATTACCATGAATGAG
GAGACTTAAAACTACAGAAATTTATTATCTCACATTTCTAGAGGCTAAAAGACTGAAATT
CAGGCATTAGAAAGGCCACACTTTCTCTCAAGTTTCAAAAGGAGAATTTTTTCCTGGGGC
TGTTCCAGCTTTTGGTGGCTCCTGCATGTTTTGGTTTTAGTGGCACATCTCCAATGTCTG
CTGCCATTTTCATATGACCTTCTGCTTGTGCGTCTTCCCTTGCCCTTCCTCTTGAGGACA
CCAGTCATGGATTTGGGGACCCACCCTCATCCAGTATGACCTCATTTTTAAGTAATTTAC
TTTATTTTCCAAAATTAAGGATTACATTCTGAGGGTTCCAGGGTGAATNGTGGAATTTTT
GGGGGGGTAAAAA
Sequence 4637
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGACTTATGCTTATAG
GGAGGCCTCAGGAAACTTACAATCATGGCAGAAGGTGAAAAGGAGGCAAGCACACATTCA
CATGGCTGAAAAGAGTCAGGGGAGGTGCTACACACTTTTTAAACAAGCAGATCTCAGGAG
AACTTTATCATCAGACAGCACGAGGGTGGTTGAGGCTAAACCATTANAAACCACCTCTAT
GATCCAGTCACCTTCCAGCAAGCCCCTCCTNCAACACTTGACAATTACAATTCCATATGA
GATTGGGGGTGGGGGGGGGTGCCACAAATNCAAACCATGTCAAAGAAGCATTTTTAAAAAT
TTGAGGGGGAAGTTTCTAATTCAGAATAGCAAATTTCAGGGACCAGGGGGCCATTTTTAT
TTAAGTCATTNAACCACCTTNCTTTTTTCAATTAACCATTGGCCCAAAAAATTTGGGGGA
AAAAANAGGGN
Sequence 4638
TACTATAGGGCGAATTGGAGNTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCTTTCCC
TTTATTTCTCAGACTGGCCGACACTTAGGGAAAATAGAAAGAACCTATGTTGAAATATTG
GGGGCGGGTTCCCCCGATACTTTTGGACATATATCCAGTAGTGGGACTGCTGGATCATAT
AGAAGTTCTATTTTTAGTTTTCTNACAAACCTTCCATNACCTGGTTTNCNTTAATGGCTT
AACNTAATTTTANTTTNCNANCNACCAGGNNTTATNTTAAGNTNCCNTTTNCTTTTGCGT
TNTTTTGNCCGGGCATTTTNGGATAATTTTNTTTGGGCCTTTTTTTTNGAATAAATNAGNC
CCANNTCNTAAACCTTGAANGGTTGGTTCANTGGGGAAGNAAAANCTTCNAANCCTTGGG
GGGNCCCCAANAAAAAATTTNCTTGGCNCCCCCGGGGGAAA
Sequence 4639
TATACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTT
TTTTTTTTTTTTTTTTTTTTTGGGATGGAGTCTCGCTCTGTTGCCCAGGCTGGAGTGCAG
TGGTGTGATCTCAGCTCACTGCAAGCTCCACCTCCTGGGTTCACGCCATTCTCCCGCCTC
AGCTTCCCAAAGTAGCTGGGACTACAGGCACCTGCCGCCACACCCGGCTAATTTTGGTTT
TGTATTTTTAGTAGAGACAGGGTTTCACTGTGTTAGCCAGGATGGTCTCGATCTCCCGAC
CTCGTGATCCGCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAAGTATGAGCCACTGAG
CCCGGCCTCTNTGTAGCTTTTAAGATGTTCTTAGGTGACTTATGAGAATGAAAAAATGGA
GAATTTTCCGTCTTCCTGCCATGAAATCAATTAATGGC
Sequence 4640
ACTCCTTAGGGCGAATTGGATCTCCCCGCGGTGGCGGCCGAGGTACCATAATTAGTTTAG
AATTCAGTCTTTTAAATTATTTGCACCTTGAGACTCTGTGAAATGAAAACATTTAACAGT
AAACTCTTGTCCCAAGGGAGCAAAGTGAGAGTAAATGCTGGTCCATAGTGTGGGGAAAAA
GGACTGTGTTCACCATGAGTTTTTCAGGATGCAGCATAAAGCTTATCTAAATACTACACA
GATCATTATCTTTTAACCCAACCAATCATATATTCAAACTAAGGGAAAAATATGTAAGCT
TTTCCTTTGGAACCTGAGACACCAGGAGCCTTAAACCACAAATAATCTACTGTAGCTATG
GACAGGGTAGTCAAATTTATTTCAAAACAAAAGCTTTGTTGGGCTGCATCAAATGCAGGA
GAAAAGGAATACTTAGGGGCATGGTTAAATTACCAGTGTGCCGTAACAGTGAGGTATGCC
TCAAATAAGCCTTTAAAAACTTTATAAACTGGACTAGAACTTCCCATGCNGTAATATTTT
TTCAGGGCTTCTAATGGAAAAAAAAA
Sequence 4641
GGGCGAATTGGTTTCCACCGCGGTGGCGGCCGAGGTACTTCGTTNTTTTTNTTTTTTTTT
TNAGGCTTCTTCAAATATGGAAAAGGAAGGAGATAAAGGGCCAAGAACCTCCAGATGGAG
ACCGGAGCTGTTTGAGTTTTTACCTTGAAGGCGCCACCACCCATGTGCCTCTGGTATTCA
CAGCAGCACTTGCTATCTCTCACTATGGTGGATTCTGACCTTTAGGCAGCTCAGGGTTTC
ATTGCCCTAGCGGGAAACAGATTGAGAGCTTTCTAGCCTGGGATATGTTGCACACCTTAG
ACATTAATGACTTTAGGTAGGTGCTTTTTTCACAGCCAGTGCTGTCTGTGAAAGTTATAA

Table 1

693/863

CCT
Sequence 4642
CCGCGGTGGCGGCCGCCCGGGCAGGTACTCTGGGAGGCTGANGCAGGTGGATCACCTTAC
GTCANGCATTCAAGACTAACCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAAATAC
AAAAATTAGCTGGGCAGGGTGGTGCATGCTTGTACAGCATCGTAGGGTNCCCCTAAACCT
GGCCCTNGNTTTTTGGGGTTTTTAAATGGTTATCCCCNTTACTTGAGCCGGCCTCTACTA
GGTGGCTGTGATTAAAATGTCCCAAGCAAGGGATAGGNGAAANGGGAATGGGNTAGAGCC
TCTGGAGATCATTGTAACCAATCCTGCCAGACCTTGTTNGGGGCAANTGGGGGAAGCCAA
ACCTAGATAAGGACCTTNTTTGGGGCCATCAAGGGGAAGCCAAAAAATTTTTCT
Sequence 4643
CCGCGGTGGCGGCCGAGGTACCAAATACAATCTGTAAATAATGGCCATTTCTTCCCAAGC
CCACAGCCAAGATGAGTGTTAGGCTAAATTCAGAGCCCTGGCTCTTCCTCAGATGAGTGG
AAAACCTGCGCATGACAGGGCCGGCTCCCCCTTCTCAAAGGGCTTCCTTCCACTCATTCC
ATCCCTTACNAGAATNTGCCGNNGGGNGTTCACCGGGCCAGAAGAAAGCACAAAACATGG
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CCATTTTAAAA
Sequence 4644
CCGCGGTGGCGGCCCGAGGTACACTGGAGGCTGGAGCCTGCAGATGGCATGGCTCTGCGG
CTCACCTTGCTGCAGTTGGTGGTGGTGACAGAGACTGCAGCTTGACTGTAGTGGTGGTTA
CCAGGAGCTCTGCCACTGCATGTCCACTAGTGACGGGTTCGCTCCACCACCCCAGCTGGG
TAGCCGCTGCTCTCACATAAGGGGTCCAATTAAAATTGCCAGGAATAAATTCCCCCGGAC
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CTATCACATGTTTGGTCTGGCTTTTTTTT
Sequence 4645
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TCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCTCAGCCTACAAGCCAATTTTTT
AAAAACTGACACCTATTACTGATAAAATTCTCTGTTTTAAAATCCTATTTACTATTTTAA
AGATAAGTANTTAGTTTTTTTTTTTTAAATACCAATAATTTCTGGTTATTTGATNAAAAT
TTTAAAGGGCATTTTTT
Sequence 4646
CCGGGCAGGTACGCGGGAAAGTGCTTAATTAGTGTCCATAGCTAAGGAAAGAGAGAAGAA
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AGGTGACAAGAAATAGTGAGGGAAGCCAGATGAAGTGACTGAGTTGTTTATTAATGATCT
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CGTCCTGGGCCAGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGT
GGGCAGATCACGAGGTCAGGAGTTCGAGACCACCTGATCAACATGGTGANGGCCCCGTCT
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Sequence 4647
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Sequence 4648

Table 1

GGCNGNCGCCCGGGCNGGTACCCNCGAATCTAAAATAAAAGCAGAAATTATATGAAAAAA
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TNACTNANGCTTTCATTAA

Sequence 4649

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GCATCCTTTGGTAACCACCACTCTACTTCCTATTTCTGTGAATTTGACTACTTTAGATAC
TCCATATAAGTGGTATCATACAGTATTTGTCTTTTTGTGACTGGCTTAATTACCTTAGCA
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TTCCNTCATATTTGTATATCACATTTTTGCTTATCTGTTCATGGTTTGATNGAACCATTT
TGGGGTTAC

Sequence 4650

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ATTATCCAATTTGATGATTTATGGTCCAACACTAATGCTCATTTTTTTGTTTGTTTTACA
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AGGAAATATCAAAAAGGTCTGAATAGACAACAGGCAAATATGCTTCCACCTACCGAAAGA
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GGCCAGNAAAATGTTTGATTGCCATTTCAACACATGGAAATAGTTTACCATTGGATGNCC
TAAATTTACCATTTTTCT

Sequence 4651

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CAGCAGCACNCTGAAAGAAAGGGTCTAATCCAAGGTTTTGCCCCTTTTGTATTGTTTTGG
NGGGCGGGCTTGCAGGGGGCCCTTATGGTCCCATAATGGGNCCACTTCATTTTCATTTTC
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AAAAAGAACTTGGGGGACTTTCCTTTGCNTGGGAATTTTGCAATTTCCCTTACCAAGGGA
AGTTTGGGCCCTTGGGGCCCCTTGCCCC

Sequence 4652

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TGACAGAAATGTTCTGTATCTGCACTGTCCAACGCAGTCACCACTAGTCAGTGTGGACAC
TGGGCACCTGAAGTCCCCGCGTACCTGCCCG

Sequence 4653

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TGCATTCTANCTGGATGTTTTCATTTATACTCCCAAATTCTAANACTCT

Sequence 4654

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TGTNAGCATCCCCTGGGATTTTGTGTTTTAACANGTTCTCTATATGATTCTGATGCACAC
TAAAGCTTCAGAATCACTGCTGTAGNATAAACTGTGATGGTTCTCANCCTTCCCCACTGC
TGGCTTAGGTGTTNGCTTTC

Sequence 4655

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Table 1

Sequence 4656
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GCAGCTGGGACTAGAGGTGTGTGCCACCATGCCCAGCTAATTTTTATATTATTTATAGNG
GCGGGGTTTTGCCATGTTGCCCAGGCTGGTCTCGAACTCCTGAACTCAAGCAATCCACCC
GCTGCCTCAGCCTCCCAAAGTGCCAGGATTACAGGTGTGAGCCACTGTGCCCAGCCCCTG
ATGCTAATTTTTAAATGGACATTTGAATTCTCAAAGAAATTTGTGTTGCCTCTTGTCAAA
CCAGGTCACTGAAATGATAACCCACACAATAAGGCCCAAT
Sequence 4657
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CTCGATCGATCCTCCCACTNCAGCCTNTCTAGTGGGCTTGGGACTANCANGGCANNAACG
CCTACNACNNCCNNAGGNTTAAANTTAGTTNGGGAATTTTTTNNGGGATAATANAAGGGG
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TANATTGGGGCCAAACNTTTTTTTTTTCNCNTTTCCCCCAACCAACTCCNTCANANANCT
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Sequence 4658
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CCAACAACCCTGCTAAAG
Sequence 4659
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CATGTATGGCATTTATTAGCATATNGNATATTATATAAGATTGAGGGATGTCATATTTNC
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CCATCTGATCAAAGTTGAAAAGTTTGATGTTTTTTAAGAGACAA
Sequence 4660
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AAAGCAAAACTGCTCCACACATGGGCCACATAATATAGCCACTTGTTTATTTAAATTTTT
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TTATTTACTCATAATTAACTCAATAAACATACTAGATTATACATTTAATATATGTTAAAA
TGGCTGAACAAAAATATTTANCGTAATTTTTCTTTTTTTTTTT
Sequence 4661
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ATAAAAAATTTTAAANGGNCA
Sequence 4662
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Table 1

TGCCTTCATTCGGGAACTTTCACCTNGGCCAGAAA
Sequence 4663
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGG
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ACCATACACTCAGCTCCTTTCTGAAAGTGTCCTCCCTTAGGCCTCTAGAAACGCCATGGA
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AAGACAAAGATTTGGGGAGAGTGACCACATGGCTGGTAGCAATAACAAGGCCTCTGGCTC
TGAATTGCTTCCTATGGTCCCGGTAGAAACTGCATAGTTCAGAGCCAAGGGGAGATGAGA
AGCCTTAACGTGGAAGAGGGACAAGAGAGATGAATTGCTCCCTCTGCAACCCAACTCTTC
AAAGTAAGAAATGGTTGGAGAGCCAATATTCACCAATTTC
Sequence 4664
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GGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCATCTGCCA
CCACTGCCTAGGCCAATTTTTTTTGTATTTCTTAGTTAGTAAGACCGNGGAGTTTCACCT
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CAAAANATTTTGNAAAAGTTTTTNTTAAGGTAATNGGGGGGCCC
Sequence 4665
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CAGANCAGGAGCACCATNCTNTNGGACAAACACCGCCACTTTAAGTGCCAGCTCCCTTTC
CAGCCTCANGCATTTCAANAAAATCNCTTNTCTTTTAACANCCAAGCAGACCAGAANGAG
CAGNACNGTGAANAACATAAGNATGAGACCAGGCTCNAGGCCNNCAAAAGGGGAGGGTGG
GGGGGGGGAAAAGTNCTNNTTGGGGTAATTG
Sequence 4666
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AAATAGATACATGTGTCTAGTGGCTACCCACAATAAATAAGTGCAGGGGCTAGGACCTTA
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Sequence 4667
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GAGTTCACTTTATTTTTAATAGAGTTTCTCCCC
Sequence 4668
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Sequence 4669
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Table 1

AAAANAAAATTNAATAAAAAATTTNCATCCCTTTATTTGGNNTTATTTTGGTCNAATANC
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ANNGTTAATATAACANTNCCTTCAAAAAAA

Sequence 4670

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATGAGAAATTGTAGAC
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TACCATTCTGCTATGAAAGGAACCAAAACTCAAATCTTGATTCTGGGTGTATTTTTTGTT
AATTTGCTGTCTTTTCTTGTAGAACCTCTCAGGTAATGACTCTAGGAGGTATGTGTTGTG
TATTAACCCATATATACACACACATATAAACTTTTTATTTAATTTTTATACCTATATTAT
GCTAAACTTGGAAATATATTGACACATCTGCCCTAAGTTAATACCACATGAATGTTTATT
ACCTACCTTCTTATTCCTGTCCCTAACCCCGCACTCCAACCGTGAGGAACCCCCTCCTGC
CACAC

Sequence 4671

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTAAGGAAGGCTTTT
AACTATTTAAGATAAACCAACCTAATTTTGATTTTTTACTTGCTTCAACGTGTTTCAGTT
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TTCCCCANTAAGAGAAAAAGAAANGAAATTTAAAATGATTTCCATATTCAANNTCACAGC
ACCGCTGAAAAGAGAACTTTGAGTTCTTAGGAAAGGCATCTGTTACCTCCAAAGGGAGGG
CCACTCATTACAGTTTTTGTGTAATATTACAGGAAAGGTCTGCCAAAGAAGGGAATTNNA
AGGGAAAATTTGGGGAAATGACNACACNTGTGATCCCCNGGCCACTTCTTTTTNAGGCNC
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Sequence 4672

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TACAATTCAAATGCACAGGCCTCCATGACTTCTTTGGAATTTAAAAGAAGCCTTCATTTC
AAGGATAGGAAATATGTAAAAATTTACCAACCATGGCTAANTTTTGTTATGGGGNAGTAN
TGGGGAAGGGACCAGTTGGAAAAAAAAAAAATAGGGTTTTT

Sequence 4673

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TGTTGGCCAGNGCTGGATCTCAAACTCCTGACCTCATGTGGTCCACCCACCTTGGCCTCC
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ACTGACACCTATTACTGATAAAATTCTCTGTTTAAAATCCTATTTACCTATTTTAANAGA
TAANGTATTAGTTTTTTTTTTAAAATACAATAATTCTGTTATTTGATAAAAATTTAAGG

Sequence 4674

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CCTTAGTGTGCTGCTGTGAGGAGTCACAGTGGGAAACTGCAGGGAGGAGGTGTGTTC

Sequence 4675

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AACTGAAATGCATTCCTTGCTAGCTCAGCGGGCGGCTTGTCCCTAGGAAGAGGCCGATTC
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TTT

Sequence 4676

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Table 1

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GTAAATATTNGNCNCTTTTGNGGAATAAAGGCTGAATAT
Sequence 4677
ATACGGCGAATTGGANCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTT
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TAGGTGTATGAACATGAGGGTGTT
Sequence 4678
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Sequence 4679
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TTCTCCAGTAGACAATGCTGGGTAAGGGAGGGGGTAGGGCTGG
Sequence 4680
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TATTCATGATCAATGGGTGTGCCTCTCTTTCCTGTTGAAAAAATATCACACCCTTATNCC
AACCACAGGGAGTGAAATTCTGGAACCG
Sequence 4681
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GCTCTAAAGCTT
Sequence 4682
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GATGATC
Sequence 4683
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CTTCCCTCATGTCTCCCAGGGACTGGNATCTTTTTNAAAGTTTTCTTTCAGTTCCCTGCA
CTGTTTCTG
Sequence 4684
CACTACTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACTTCAAA
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CAAAGAAGGCTGCATCGATGCTCCTTCTACTCTTGCCACACAGGCGACCCGATCCAAGAA
AGTCACTGCCACAANGGCACCGGCCACAAAAGAAGCCTTTACAAAAGGCCTTGATGTATC
TTTTCACCCACCCTTGTGACTGTGCCATACCCTTTCTCCCGCTCTTCCTCGGTGAGAAGG
GGTAAAGTGGTTATTTTGTGCCCTCGCCCAATTTGGCCAAAACCCCGCTGCGCAGCTNAG
CCCGGGGGGGGAAAGTNCCCGCGCAGGACCCCCCCCCGGCGTACCTTCGGCCCGCTCTTAG

Table 1

AAACTAGTTGGGAATCCCCCCGGGGCTGG
Sequence 4685
CCGCGGTGGCGGCCGCCCGGGCAGGTACCGTCCATGGCCTGTTAGGCTGCACAACAGGTG
GTGAGCAGCGGGCCAGCAGGCATTACCACCTGAACTCCATCCACCTCCTGTCAGACCAGC
AGTGGCATTAGATTCTCATAGAGCACAAACCCTATTGTGAACTGCGCCATGNCAAGGGAT
CTAGGTTTGTATGCTGCTTATGAAAATACAATGCCTGATTATNTGAGGTGGAACAGTTTC
ATCCCAAAGCCATCCTCCAGCCCNNACCCCAGTCCATGAAAACACTGNCTTCCACAAAGC
TGGTCCCTGGAGCCAAAAAGGTTGGGGACTANCTGTACTNCTATAAATCTAGNTGGAAAC
ATTTTC
Sequence 4686
TCATGAGATTTAAGGAAAAAAAGCAATCTCCATAACATAAAAGTGCAAGAAGCGGCAGCA
AATGCTGATGGANAAACTGCAACAAGTTGTCCACAAGGNGTANCTNAAAATCNTTAAAGG
NTGACTACAATAAACAACAGATTTTCAATACAGGGGAAACAGCCTTNTATTGGAAGATTC
CACCTAGGGCTTTCATAGTTAGACAGAAGTTGATGCCTGGCTTCAAAGCTTCAAAGGACA
ATCTT
Sequence 4687
AGGTACGCGGGGTTTCAGCGCCTGCAGGTTCCGGGAGGTCAGCTCCCAGCCGAGGACGTC
GGATGTCATCGTCCTTGCTGCTTTGCCACCCCATTCCCGTCAATAAAGTGGTTTGAACCC
AAAAAAAAAAAAAAAAAGTACCTGC
Sequence 4688
CCGGGCAGGTCTTGAACTCCTCACCTCGGGTGATCCACCCATCTCGGCCTCCCAAAGTGC
TGAGATTACAGGCGTGAGCCACCACGCCCGGCCAGAGATCCACATCTATATTTATAACAC
ATTTATGGATGAAAATTAAACAGGTGTCCGGGTGCGGTTACTCATGCCTGTAATCCGAGC
ACTTGTGGAGGCCGAGGCAGGCGGATTACTTGAGGTCAGGACTTCGAGGCCAGCCTGGCC
AACATGGTGAAATCCCATCTCTGCTAGAAATACAGAATTGGCCCGGGTGTGGGTGTCACG
CACCTGTAGTCCCAGTTACTTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCGAGATTGCA
ACACTGCCACTCCAGCCTGGGTGACAGAGCAAGAGACCCTGTCCCAAANNAAAAANNNNA
ANNNNNAAAGTACCTCGGCCGCCCGGGCAGGTACGCGGGGGAATTCTGCGGCAAGCGCTT
TGAGAAGCCAGACAGTGTTGCAGCCCACCGTAGCAAAAGTCACCCAGCCCTTGCTTCTAA
GCCCCTCAAGAGTCACCCAGTGGGTCCCCTAGAGCCCTGTCCCCANCATCTTTTGCCCCC
TGGGCCT
Sequence 4689
AGGTACTTTTTTTTTTTTTTTTTTTGAGACAGTCTTGCTCTGTCACCCAGGCTGCAGTGC
AGTTGTGTGATCTTGGCTCATTGNAACCTCCACCTCCAGGGTTCAAGCGATTCTCCCACC
TTAGNCTCCTGACTATCTGGGACTACAGGCACACATCACCACACCCAACATGGAGAAACT
CCATCTCTACTTAAAAAANAAATAAATAAATAAATAAACAGGCATAGNGGCTCACGTCTG
AATCCCAGCTACTGGGGAGGCTNAGGTGGGAAAATCACTTNGAGCCCAGGAAGGCNGAAG
CTGCACTTGAGCCAAGAATCAACGCCATTNGCCCTCCAGCCTNGGGGNGGACAAAAGCGA
GACTCCNTCTTAAAAAAAAAAAGGAAAAGTTATTAGAAAAAAAATATGANGGATATTNAN
TTACTNAAANCAAAGTNTCAAAATGCCTAAAAAAAAGGCC
Sequence 4690
GGCGGCCGCCCGGGCAGGTACCAGNACATGAAGGAAAGAACTANAACANGGATGTGAATA
ACTTCTAAACTGGTCAGCCTTGGACAAAAGGAAATCTGGAAATCTCGACTTGGCCTGAGA
GAAACCTCATCCTGGCCCTTAAAGTGCCAATTAAGGCTGAGTTGAAAAGGAGCTGGGCAT
CATCAAACTGCAAACAAACTTAGCTTAGGCACCCACAGTGTGATGATGTGTTTATTTCCA
TGAAGGAGCAGTCTATGGAGAAGTGCAGGAACTTTCAAAGTTGCATGGGCAGAGCTGCTT
CTTATATGACAGAATTGGCAAGCTGCCTGTCACTTCACAGTGGGTCACATGAATATGAAG
CAGAGAACTGGCTGTGTGCGTCAGCAGGGGAGCTTAAGACTGCAGATTCTGGGGAATCAG
CACTCACTGTGACACATGTGATCCTCTGTCTCCTCAGACAACTGAAGGATGGATGAGAAG
GGGGATCTCTGGAGCCTTGACCTTTTGGGCCCCCGAATTTCTAGCTAGAAAACCTCTTTT
CAAGACAAAAACCATGCCAAAGTACCT
Sequence 4691
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGNAGTT
TTTTTTTTTTTTTTTTTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTA
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GGGGGAAAAAAAAAAATTNAAGGNNAAAAANAAANNGGGGGGGGNTTTTTTAAAAATTTT
TTTTTAAAAANNTTAAAAANNANANNGGGCCNNNNAAANNTTTNNNAAAAGNNGGGCAAA

Table 1

AAAANNGTTTTTTGGGGGGGGNAAAAAAAAACCCAAAAACCCAAAAANATNAAAATNTGA
TTGNGGNGNNGAAGGGGTTCAAAAAAAANNGGGAATTTTTTNATTTNNCCCCTNGGNNNT
NTGNATTTGAAGAAAAAAATTTTNGTGGGGGGGGNNTTTTTTATANTANAGNGNNNNTAN
NCCAGNGGGGACCNAAAAAAAAAGGGGNNTTTNTTTNGGGGGGGGNGNTTTNTGGAANNAC
AANANATGGGAAAAAAATTTTTTTTTTTTTTNGGGNCNAAAAAAAAAANTTTT
Sequence 4692
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT
TTTTTGGAGACAGGTCTTTCAACCAGGCTGCAGTGCAGTGGTGGAGTCANAGCTCACTGC
AGCCTTGATCTACAGGGCTCAAGCAATCCTCCCACCTCAGGCTNTTCAGTAGCCAGGGCT
ACAGGCACCCACCACCACACCCAGCTAATTTTTTAAAAATTTTTAGTAAAAAGGAGGTCA
NACTGGTCTANAATTCCTGAGCTCAAGCGATCCTCCCGCTTTGGGTTCCCAAAGCGCTGG
GATTACAGGCATGAGCCACTGCACCCAGCCCATACATAGGAGTTTTATAACAAGCATTTT
GACAAAATATGTTGATAAGGTTTGGATGTCCCCTCCAAGTCTCATGTTGAAATGTGAACT
CCAGTGTTAAAGGTGAGCCTGGTGGGAGGTGTTTGGATCATGGGGGCANATCCCTCATGG
ATGGCTTANCACCATCCACTTGGG
Sequence 4693
CCGCGGTGGCGGCCCGCCCGGGCAGGTACCTGGGATAAAAAGTGCAGTTCTTCTGTTTAT
ATTTGGGTCTGGCATCTGTGAGAGTGCCCTGGGGACTCAAGATATAGACTGGCAGAAACA
GCTGCCTGTTACAGGTTAAAAAATTGTGCCTCCCTCACAAGATATGCTGAAGTCCTAACC
CCCAGTTCCTTAGAATGTGACCTTATGTGGAAATAGAGGTTTTGCAGATTTAATCAAGTT
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TTTGGACATAGACACACACAGAGGGAAGATGATATGGAAACACAGAGGGAGAACTCCATG
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CAGCACCAGAAGCTAGAAGAGCCAAGGACAGATTTTATCCACAGTCTCGGATGGAGCAAG
GCCTTGCTGATACCTTGATTTCAGACTTTGATCCTCCAGAACTATGAGACGATGAATTTC
TGTTGTTTCTAAGCCACACCATTTTGTGGTACCTCGGCCGCTTCTAGAACTAGTGGATCC
Sequence 4694
TCATTCATGAAAGTAATTTCTCACCTGACCAAAATCGATCGCTTAACATTTATTGCATCA
TNGCCCCTGNNTCTGTANACTACTCTACCNAANNTTTAATTTGTCACTAGNTT
Sequence 4695
CCGCGGTGGCGGCCCGGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTAGA
AACAGGGTTTCACTGTGTTAGCCAGGATGGTCTTGATCTCCTGGCCTCGTGATCCGCCCG
CCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCATCGTGCCTGGCCGCTGCTTG
GTTTTAAATGAATCTTGGATACAGGTGGCCANACTAAATGGTCTCTCAACTTGTCTTCAA
GTTTAGGATTTTAATTTTTGATATTTTTCACTTCTCTCTGGAAATTTGTTCAATTCTCAA
TTGTTGGGGGAGTGCGCAGCTGCTTCATTATGAAGTTTACTGGCTGATAATCAAATAAAT
ATAGAAAATATAATTGGGTCATGTAGCTATCGCTAACCAGTTTTAAAAAATATGTACCTC
GGC
Sequence 4696
TTTTTTTTTTTTTTTTTTTTTTNGGNATTTTTAGTANAGACGGGGTTTCACCATCTTGGC
CAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCACCTCGGCCTCCCAAAGCGCT
GGGATTACAGGCATGGGCCACTGCGCCCAGCCTCTTTACTGTTCATTCAGTGGGGCTTGG
GGATGGAGCAAACAAAAACAAAAACTGCATGTGTTCAGGCTGCCACTTTTACCTGGATGC
CTACACTCCCCATGTGACAGATTAGTCCCAAATCCCATTTGGTCCCTCCCCAGTAGTTCA
NCCTCTAGTCCTTCAACTTCATCTCATAANAGCTCTCCTGCTCCTGGTCCTTCATTTGCC
AAGGTTCTCATAACCACACAGNGTGCTCCANACATGGCCAGACCAAGCCAGGGCATGAAC
AGGAGGTAATCCACAGGGCAGGGGACCATGCTTCTACAAATGGGCTAGCAGTATTTAAGT
AAATGTTTACTNCGTGCTTGGCACTGTGGGAATGGTNAAGGGATTCCCCGAGNCCAAATT
TTTNACCCCTTTTGGGAAAAAGAAAAACACNCTNTTNTNAAAAAGTTAAAANTCCCAATT
TATGGNTTTTTTCCAAGGTAGGATAACCCTTNCNNAAATTGANNCCATTGGNAAAGGGAC
CAGAACCATTTNAAAATGGTGGNNAAAACCATTTTCACAAGGCTTTTACCTTTTAAAAAG
CCNGNTTTTTAAAAA
Sequence 4697
AGGTACAGAGACAGAGGAAGGGGGGCTCCAAAGCCAAGAGAGGGAACCCCACCTGCCACA
GATACCAGCTAGGTATATATACAGAGGCTGGAGGAGGCAGTGTCTGATTTGCACAGGCTC
AGGGGATTGGTTTGACTAGGCATGTCATTCACGTAGCCCGCAGGAAAAGCTGGCTCTCCC
ACCCTAGCCTTTTAATATGCAAATGCAGGGCACCATGATCTTCTACACAGGTGGGGATAC

Table 1

TTCGGGGTGTCCATGTATCCAGGAATGTGGGGAAAGGGCAAGAAGTCCACAGGAATCGCC
ATGTTTGGGTGGACCCACTTTCTAATGGCTGGCATTTGGATATCGGGTAACTGGCCTGGC
TTTAAGAGCTGGAGCTTTACAAGAAACTTTTCCAGACGTGCTTTAAAAAACAAAAACTTC
CTAAGGACCCCTTTTCCTCTCTATCTGCCTAAAATAATTTATCAATAACTCCTACAACAT
TCCCCCCTGTGGAGATGCCGCACTAACTGCTGTTAGAGGTTTGGGCGACGATGTCTTCTG
GCTACTTCCTGCTGGAAAGGGGCGTCGAATGGGGAACAGCAGCCTAGGGCTCCTCTGGGG
TTGA

Sequence 4698

CCGCGGTGGCGGCCGCCCGGGCAGGTACTCTTTTACATTCCCACCAGCAGTGTATGAGAG
TTCCAGATGTTCCTTTCTCTTTAGTTCTTGGTATTGTCAGTCTTTTTAAATTTAGCCATT
GATTAGATGTGTATTTGTATCTCATTATGATTTTAATTTGTGTTTTACTGATGGATGATG
TTGAGTATCTTTTCATGGGCTTATTGACCAAAAATGAGTGAGACTCCATCCCAAAAAAAA
AAAAAAAAAAAAAATAAAANGTNCGCGGGGCTCTTCCTGCTCTCCATCATGGCGCAGGAT
CAAGGTGAAAAGGANAACCCCATGCGGGAACTTNGCATCCNCAAACTCTGTCTCAACATC
TGTGTTGGGGA

Sequence 4699

CCGGGCAGGTACACTTTGAAGACTTTCTCAATGGCATTAACATAGGCAGCTGTTCTCAGG
TCCAATCCCAGGTTATACTTCATGGCTGTGCGCATAATTTGCCTGGCAGAACGCTCCATT
GTGTATGCCAAGCCAGAGTGCACCGATGTCTTTCTCAGATGCACCCGATATCCTGTCTTG
GAACTCTGCCGTGGGTACCCAGGGGTCTGAAAATCTCTCATTTAGTAGTCGATAGCAAAA
TTGTTCATCAGCATTCCTTAATATGATCTTGCTATAATTAGATTTTTCTCCATTAGAGTT
CATACAGTTTTATTTGATTTTATTAGCAATCTCTTTCAGAAGACCCT

Sequence 4700

CCGCGGTGGCGGCCGAGGTACGCGGGGATTCTGGGGTTCGTTTAGAGGTTTGAATTTTCT
CGGANAAAGACAGGCCNGCCACNAGGAAAACANAAACAAGCCGNAGCAACATCTAANCCC
TTGAAAGGATCCTGAGAGAGGGGGGAAAGGGAAAACAGC

Sequence 4701

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAGC
AGGGGGATGTGTTTCTGGGGAATTGTGGCTCTGGAAGCTTCACGGTTTCCCAGAATGTGG
AAAATATATCTGTGCAGGATAGAAATCCTGCCCAGAGGCTGTTTCTGTCTCATTTGAGCT
CTCCTTCATGTGGCAGAGCTGGCTGTGGCGTTTANGAGCCTACATTTTAGAAAAGCTTAC
CTCAAAGTTCTGCATTGAGCCTGAGACTGGAAAGGAGATACAATAAAACAGCTGACAGGA
GCTTTGGTAGTCACACATGCCTGATGGGGTGCACAGGGCCACAGTCTCTGAAAGGCAATT
TGGCATTGTCTGTCCACAATATACTTTTATCCATTGGTCCANCAATCCTACTCTAGGAAT
TTTTCCTACATATAAACCTGTATGC

Sequence 4702

AGGTACCGGGATGTGATGTTGGAGAACTACAGCAACCTTGTGTCAGTGGGGTATCAAGCC
GGCAAACCTGATGCCTTCACCAAGTTGGAACAAGGAGAACCACTATGGACACTAGAAGAT
GAAATCCACAGTCCAGCCCACCCAGAAATTGAGAAAGCTGATGATCATCTGCAGCAGCCC
TTGCAAAACCAAAAAATACTGAAGAGGACGGGACAACGCTATGAACACGGAAGAACTTTG
AAATCATATTTAGGGTTTTAACCAACCAGAGCAGAAAGATACAACATAAAGGGAGCCTGC
TTGAGTTTAATGGGAGATGGAGCTTTTTCTCCATGATTAATCATGAACAAATTGCCTACG
GAAATTGAATTCCCTGAAAGTAGAAAACCCATCAAGCACCCAAGTCACAATTCCTT

Sequence 4703

ACTGCTCTGCCGATNCAGGTTATATTACTCTCACACAATATGTTATCACGTAAGGGCTGG
GGAGGACATACATACTTCAGTGGGTNAACTGANGTTNGGGACACAGGGAGCTTGACTGTG
ATTCCAAGTATGTGGTAAGCTCACAACCCCCAAGATTATCTTATCCTCTAAACGGT

Sequence 4704

CCGGGCAGGTACAGTTGTTCCCCANTATCCACAAGGGATTGGTTCCAAGACCCACCTGGC
ANATATCAAAATCTGCAGATGCTCAAGTCCCTGATATAAAATTTTGCATATAACCTACCT
ACATATTCCTGTATACTTTTAAAATNAATCTCTTANATNAACTTTATANNTGGTCTAANT
ACANATGGTTATATATTGNCTATNGCCANNATTACCTNTTA

Sequence 4705

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTCCCATG
TTAAAAGACATTTATTATCTTGTTTTCCTGTCATGGGAGTTCCAGAAAAAGTTAAAACAG
ACAATGGGCCAGGTTACTGTAGTAAAGCATTTCAAAAATTCTTAAATCAGTGGAAAATTA
CACATACAATAGGAAATTCTCTATAATTCCCAAGGACAGGCCATAATTGAAAGAACTAAT

Table 1

AGAACACTCAAAGCTCAATTGGTTAAACAAAAAAAGGAAAAGACAGGAGTATAACACTCC
CCAGATGCAACTTAATCTAGCACTCTATACTTTAAATGTTTTAAACATTTATAGAAATCA
GACCACTACCTCTGCAGAACAACATCTTACTGGTAAAAGGAACAGCCCACATGAAGGAAA
ACTGATTTGGTGGAAAGATAATAAAAATAAAACATGGGAAATGGGGGAAGGTGATAACGT
GGG

Sequence 4706

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGATCTTGGCTCACTGC
AACCTCTCCCTCCCGGGTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTAGCTGGGATT
ACAGGCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCAC
CATGTNTGGCCATGGCTGATCTCAAACTCCTGACCTCATGTGGTCCACCCACCTTGGCCT
CCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCTCAGCCTACAAGCAATTTTTTAA
AAACTGACACCTATTACTGATAAAATTCTCTTGGTAAAAATCCTATTTACTATTTTAAAG
ATAAGNATTAGTTTTTTTTTTAAATACAANTAATTCTGTTTATTGATAAAATTTANGGCA
TTTTNATTGCCTTTTGCAGATTTACTCATTACTACCCTAACA

Sequence 4707

AGGTACATCTACCTAAAGGACTATTATGTGGAATAATACATACTAATGAAGTATTACATG
ATTTAAAGACTACAATAAAACCAAACATGCTTATAACATTAAGAAAAACAATAAAGATAC
ATGATTGAAACCAAGTTGAAAAATAGCATATGCCTTGGAGGAAATGTGCTCAAATTACTA
ATGATTTAGTGTTGTCCATACTTTCTCTCTCTTTTTTCTTTCTTTTTTTTTTATTATGGT
TAGCTGTCACATACAACTTTTTTTTTTTGAGATGGGGTCTCGCTCTGTCACCAGGCTGGA
GTGCAGTGGCGCGATCTCGGCTCACTGCAACCTCCACATCCCATGTTTGAAGTAATTCTT
CTGCCTCAGCCTCCCGAGTAGCTGGGACTAGAGGAACGTGCCACCATGACTGGCTAATTT
TCTGTATTTT

Sequence 4708

CTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTAAATCATCTCTT
GATTACTTTATAATACCTAATACAACGTAAATGTTATGCAAATCATTGGTATACTGTATT
GTTTGGAGAATAATGACAAGAAAAAAAATCTCTGTATGTTCAATACAGATGCTTTTTTCT
TCTTGAATATTTCCTATCCACAGTTGGTTGAATCCATGGGTGCAGAACCCACAGATACAG
AGGGAGAACTGTAAGGAGATTTGAGAAGTTTCTTCAAAAAGTTCCTTCAGAAAGTGACAC
TTGAGCTGGGGTTTAAAGTATAAGATAATGTCAAAGAAGGGAGGGAAGAGGATTTATTTA
AAAACCAGAAAAAACAAAGG

Sequence 4709

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACNATCTTG
GCTCACTGCAACCTCTCCCTCCCGGGTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTA
GCTGGGATTACAGGCGCGTGCCACTGCGTCCGGCTAATTNTTGTATTTTTAGTAGGAGAT
GGGGTTTCACCATGTTGGCCAGGCTGATCTCAAACTCCTGACCTCATGTGGTCCACCCAC
NTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCNCTCANNCTACAAGCNN
TTTTTTAAAAACTGACACCTATTACTGATAAAATTCTCTGTGTTAAAATCCTATTTACTA
TNTTAAAGATAAGTATTAGTTTTTNTTTAAATNCAAATAATTCTGNAATTGATAAAATTT
AAGGCATTTTTNATTGCCTTTTGCAGATTTAC

Sequence 4710

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTCAAAG
ATTGATTCAAAAGTGTAAGACAGGCCAGTGGATTTTAATGTATTAACAATATAAGAGTGC
ATTAAGTTTTCGGAGTCTACATTGCCTTTAAGAAACTATGACTTGTAGTAAGCCGGGCGC
GGTGGCTCACGCCTGTAATCCCAACACTTTGGGAGGCCAAGGTGGGTGGATCACAAGGTC
AGGAGTTCAAGACCAGCCTGGCCAATATGGTGAAAGTCCGTCTNTACTAAAATTACAAAA
ATTAGCCGGGCCGTGGTGGCAGATCCCTTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAN
GAGAATANCTTGAACCCG

Sequence 4711

CTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT
TTTTTTTTTTTTTTCCTTTTTTTTTTTTTTTTAAATTGANATGGGGTCTTGTCATGTTGCC
CAGGCTGCTNTTGAACTCCTGGGCTCAAGCAATCCTCCTGCCTCCCAAAGTGCTGGGATT
ACAGGCATAAGCCATCGTGCCCGGCCCTTTTGGTAATTTTGTATTACTGGACCCANACTN
TGCTCCTTGGCTATAAATTCCCACTTGCTNATGCTGATATTTGGAGTTAAGTCCATTCAC
CCTNTTACCACTGCAAAATCCCATTACATTTGTNTATNTACCTGTCATAATGGCCCTGAA
TAAAGTCTTCCTTACTGGGCTTTAACAATTCTCATTGAANAATTTTTTT

Sequence 4712

Table 1

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTNGAGATGG
AGTCTCACTCTGTTGCCCAGGCTGGAGGAGATCTCAGCTCACTGCAACCTCTGTCTCCTG
GGTTCAAGTGATTCTCCTGCCTCAGCCTCCCGCGTAGCTGANATTACAGGCACATGCCAC
CATGACCAGCTAATTTCTGTATTTTTAGTAGAGACGGGGTTTCACCACGTTGGTCAGGCT
GGTCTCAAGCTTNTGACCTCAGGTGATCCACCCACCTNAGCCTCCCAAAGTGCTGGGATT
ACANGGTGTGAGCCATAGCACCCGGCCAGAATATTTTCATNTGGCTTNGCAGTAAACTGT
CATAATCAGNAGCTGTGGATGTCAAGTTCACAGTCTCACAGTCATTTTCCCAGAGGTCTN
CAAATNAAACACTTATGATAAATT

Sequence 4713

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAACCGGNAAAAATGTAATTTATTT
AATNCAAAGCTNCATTTTTTCNTATTTTTNAACANCTAATNAAANAAACNTTTCAAAAAA
TTNNTTNCNTCNNAANAAGTTAAAANNCTNNAAAGGAACTGNANGTAAANCANTTTNTAA
AAACCAAANTGNGCNAANNCTNTNCANAAANAAGGCCAAAGTTACNAATTTGNTNANAGG
GANCNNTTTGCANCTTTTTCCAANNACCTGCCCGGGNGGNCGTTTNAAAACNANGGGANC
CCCCGGNCTGGGGGAATTTTANNTNAAGCTTTATNNANACCNNCNACCNNAAGGGGG

Sequence 4714

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTT
TTTTTTTTTTTTTTTTTTTTAATTTGATAATTAATATCTGGCANAAGTTTCACATGATCA
CTTTACTCTACCCATTTCCTGGAAATGTCCCCAGTTTCCANCTTCTTAANGCTGTTTACT
CCTGAGCGTTCTTCAATCTNTNTCCCAGGAGGTAGAATCTAATANAATNTANGCACTGAC
CACTTNTAAAAA

Sequence 4715

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT
TTTTTTGTAAAGACGGGGTCTGGCTTTGTTGCCCTGGCTGGTCGCGAATTCCCGGACTCA
AGCAACCTTTCTGCCTCGGCCTCCCAAAATGCTAGGATTATAGGCATAAGCCACTGTGCC
TGTCCAAAACTTTATTTTTAATGACAAAACCTATTTTCCTATAACTCTGCTTGGAATGCT
GTATTTATCCTAAGCACCAGTTTTGGCCCTAGCTGGCCTGTATACAGCTTTAGGTAGGCT
CTTGATCTANTTTTGCTATANGCAGGGTANGATCTCAAGTATTTNATATTTTACTTGTGG
CANAAAACAGTGTTAAACCTTTCTT

Sequence 4716

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTGG
GATGGAGTCTCACTTCTTGCCCAGGCTAGAGTGCAGTGGCACGATCTCGGCTCACTGCAA
CCTCCACCTCCCAGATTCAAGCAATTCTCCTGTCTCANCCTCCCAGGTAGCTGGGATTAC
AGGTGTATGTCATCATGCCCAGCTAATTTTTGTGCTTTTAGTAGAGATGGGGTTTCACCA
TATTGGTCAGGCTGGTCTCGAATTCCCGACCTNAGGTGATCCACCCACCTCGGCCTCCCA
AAGTGCTGGGATTACAAGTGTGAGCCACTAGGCCCGACCCAATTCTTTAAACCAGAATAA
AATAATTGATTTAAAGAAAGTTAAATATGGAGGAAACAGGGGAGCCTTTAGCACCTTTGA
GTTAGTTGAAAAGATTGTAGATTTTAGAGACAGAAAAACATTGAGTTCAAAT

Sequence 4717

CTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATCCACGTCACTGGGCACCTGGCCGAA
CATGGCCAGGTAGGGGCTCGTAGATGACCGAACGGAATATCCACCTCCAGCGCTGCTTCA
TTCTGCCTAAGGGATCCCTTGCCTGGCCACGCCAAAGGCCACCATCCACACCGCNAAAAG
AAGGAACAGTGAANAAGGAACACATTCGGATCAGCATCCTCTGCAAGCATTTATAATTCT
TGGGGTCCCTAAAGTTTTTCTGCTTTACCAGATAAAAAAAATTGTTGGNATTCAAATTCT
TTAANAAGTTGANAAAATTAAATTGTTANTTTCNCAGNACAANGAAAAAANTNGACCTTC
CNTTCNCAAGTAAATTACCAAAAAAGGAGGCCTTTTTTTATTATAGGAAAGGAAGNNTGG
GTAANCNCCCGAAAAAATTAACCAAATTNTCCTTGGCTTNATTGAAAANTNTNAAAANAA
AAAGGCCCCCCCCAAGGNCCGTTTGNTTCCCAATTCCANCNATTTTTCCCAACAAGGGTT
NCAAAGATNAAAAAAATTAAATTTTTCAACCCCCCNA

Sequence 4718

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGGCTCCTCATCT
ACTCGGGCTTATGCCAAAGATGTAAAATTTGGTGCAGATGCCCGAGCCTTAATGCTTCAA
GGTGTAGACCTTTTAGCCGATGCTGTGGCCGTTACAATGGGGCCAAAGGGAAGAACAGTG
ATTATTTGAGCAGAGTTGGGGAAGTCCCAAAGTAACAAAAGATGGTTGTGACTGTTGCAA
AGCCAATTGACTTAAAAGATAAATACAAAAACATTGGAGCTAAACTTGTTCAAGATGTTG
CCAATAACACAAATGAAGAAGCTGGGGATGGCACTACCACTGCTACTGTACCTCGGCCGC

Table 1

GCTCTCTTCCAGGACATCAAGAAGCCAGCTTGAAGATGAGTGGGGTAAAACCCCAGACGC
CATGAAAGCTGCCATGGCCCTGGAGAAAAAGCTGAACCAGGCC
Sequence 4719
ACTACTCACTATAGGGCCGAATTGGAAGCTCCACGCGCGGTGGCGGCCGCCCGGGCAGGT
ACGGTGTGGCANTGCCCACCTAAAGCCCCAGCTACTGAGGAGACTGANACAGAAGGATTG
CTTGAACTCATTAAGGCTGAACCTGCANTGAGCTGTGATCATGGCACTGCACTCCAGCCC
TGGGCGGGTAAAAAGTGATGANCCTGTNCCAAAAAAAAAATTAAAATTANCNAANANGGAC
CTNCATTATTATAATTTAAANTTTTTTGTAATAAAATTTTACTTCTTAAAAAGGGTAAAN
TTAATTTNNAAANAGNAATTCNNCNAATAAAATATTTATACCAACNTNGNATTANTTTTT
TAAAGGTACCCCTGGTTAAAANGNTTTTTCTNCATATTATTCAATTAACAAGGGTGNANT
TAATTAAAAAGGAACTCCAATNGNGNGTTTNANGNAAAAAAAA
Sequence 4720
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTTTTTCTTTGTAATTA
ATATTCTATTAGACCACCACATCACACGGATTCCTTTTTGAGGAAGGACTTGTTGCTCAG
TTTTGGTCAGTGCAGTCAGCAGATAGCTTCCAGCACTTTCTGCATGACTCATATCACCCA
AGGTCACACCCTTCCTGGTGCAGCTTGCACACAATGCCTGAGTGAGATGGGGTGGAACTG
CCCACTTCAGAGCTCCCTGCCGGTTGCTGAAGCCAGGACTACATTTCAGTGAGATTGCTC
CCTTAGCCCAATTATACCTCTTCCCCCTTCCTTTCACATATGCTGGTCCCTAGTAAATAC
ATTGCACCCCAAACTCTGTCTTAGCATCTGATTCCAGAGAACCCAACCTGAGTCATTTCT
TATTGGGAGACATTTTTGAAACCCTGTGAATAATCTGTTTGTTATT
Sequence 4721
ATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATGACTCT
CAGTGTCTGTGGAAACATGATTGAAGACATTATAAGCGAGTGCGTGTGACCTATAAGGAA
AGTCTCATTGGTAGAAGAGACATGCATGGTAGAAAGGATGATGCACAAAAGCAGCCTGTT
AAAAATCAGCTTGGATTAAACCCGCAGTCACATCTACCAGAACTGCAGCTATTTCAAGCT
GAAGGGAAAATATATAAATATGATCACATGGAAAAATCTGTCAACAGTAGTTCCTTAGTT
TCCCCACCCCAACGTATTTCTTCTACTGTCAAAACCCACATTTCTCATACATATGAATGT
AATTTTGTGGATTCATTATTCACACAAAAAGAGAAAGCAAATATTGGGACAGAACACTAC
AAATGTAATGAGCGTGGCAAGGCCTTTCATCAAGGCTTACATTTTACTATACATC
Sequence 4722
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACCATGCCTGGT
TTATTGTTTTATTTTTTTGGCAGAGATGGGTCTCACTGTGTTGCCCAGGCTGATCTCAAA
CTCCTGGCCTTAAGCGATCCTCCCATCTCAGCCTCCCAAAGTGCTGGGATTACAGACCTG
AGCCACCACACCTGGGCAACAGAGTGAAACCTGTCCCTGTTTTCCTGCTCTTACTCTCAC
CTCTNAGGCCTCCTCTGCCTGGAANAGATTACAGGGAAATTNCANGCAGCCCTTGTCAAT
TGNTTTTATGAATTCTTTACCTGNTCC
Sequence 4723
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTCCTATAT
CANAAGTTAGGTATCTTACTCANATTCATTGTTAAATATTGTCCCTTGAAGACCACACAT
TCTGTATGTCANTCCTGGCTACAGNAACTCANTTGGTNTGCATCCTTAGGGAGGTGCTGT
GTCTNAANTGAAAATGT
Sequence 4724
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTACTTTGGCAACAAATATTTATACA
TACAAGATGCTAGTTCATTTGAATATTTCTCCCAACTTATCCAAGGATCTCCAGCTCTAA
CAAAATGGTTTATTTTTATTTAAATGTCAATAGTTGTTTTTTAAAATCCAAATCAGGGGT
GCAGGCCACCAGTTAAATGCCGTCTATCAGGTTTTGTGCCTTAAGAGACTACAGAGTCAA
AGCTCATTTTTAAAGGAGTAGGACAGAGTTGTCACAGGTTTTTGTTGTTGTTTTTATTGC
CCCCAAAATTACATGTTAATTTTCCATTTATATCAGGGATTCTATTTACTTGAAGACTGG
TGAAGTTGCCATTTTNGTCTCATTGTTTTCTTTGACATAACCTAGGATCCATTATTTTCC
CCTGAAGGCTTCTTG
Sequence 4725
TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAATATGCATTC
ATCAATGTGCACATCAGAGAACAAAACACCCAGTGCAGTGTGCCAGATCCCAGTTGAGTC
ATGATAGGCTGGGCACGGTGGCTCATGCCTGTAATCCCAGCACCTTGGGAGGCCAAGGCA
GGTGGATTACCCAAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCGTC
TCTACTAAAAATACAAAAAAATTAGCTGGATGTGGTGGGCACCTGTAATCCCAGCTA
CTCGGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGGCGGAGGTTGGAGTGAGCCA

Table 1

AGATCGTGCCATTGCACTCCGGCCTGGGCAAAAAGAGCAAAACTAAATCTCAAAAAAAAA
AAAAAAATNGGAGAAAAGAGT
Sequence 4726
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGTCCTCAGCTTCCAGCCAAAATGGCGG
AGAACAGCGAGAGTCTGGGCACCGTCCCCGAGCACGAGCGGATCTTGCAGGAGATCGAGA
GCACCGACACCGCCTGTGTGGGGCCCACCCTCCGGTCTGTGTATGATGACCAACCAAATG
CGCACAAGAAGTTTATGGAAAAGTTAGATGCTTGTATCCGTAATCATGACAAGGAAATTG
AAAAGATGTGTAATTTTCATCATCAGGGTTTTGTAGATGCTATTACAGAACTCCTTAAAG
TAAGGACTGATGCAAAAAAACTGAAGGTGCAAGTTACTGATACCAACCGAAGGTTTCAAG
ATGCTGGAAAAGAGGTGATAGTCCACACAGAAGATATCATTCGATGTAGAATTCAGCAGA
GAAATATTACAACTGTAGTAGAAAAATTGCAGTTATGCCTTCCTGTGCTAGAAATGTACC
Sequence 4727
GTAATACGACTCACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACAC
ATATCCTCTGTGGGAAAAACTGCTCTCAGAGTGTGCACTCTCCCCACAAGCCAGCGCTCA
AACTGGAAAAAGTATCTCAATGTCCTGAATGTGGGAAAACCTTTAGCCGAAGTTCTTATC
TTGTTCGGCATCAAAGAATCCACACAGGCGAGAAGCCTCACAAGTGCAGTGAGTGCGGGA
AGGGCTTTAGTGAGCGCTCCAACCTCACTGCCCACCTACGAACTCACACAGGGGAGAGGC
CCTATCAGTGTGGGCAATGTGGGAAAAGCTTCAACCAGAGTTCCAGCCTCATTGTCCACC
AGAGGACCCATACTGGGGAAAAGCCTTACCAGTGCATTGTCTGTGGAAAGAGATTCAACA
ACAGTTCCCAGTTCAGTGCTCACCGGCGCATCCACACTGGGGAGAGCCCATACAAGTGTG
CAGTGTGTGGGAAAATCTTCAACAATAGCTCCCACTTCAGTGCCCACCGAAAAACCCACA
CTGGTGAAAAGCCTTACAGGTGTTCTCACTGTGAGAGAGGCTTCACTAAGAACTCTGCCC
TCACCCGTCATCAGACAGTACCTGCCC
Sequence 4728
CGCCCGGGCAGGTACTTCTTTTTTTTTTTTTTTTTTTTTTTTCNTTTNTTTTTTTTTTT
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AAANAGNTGNNTTAAACNTTTNNAANGGGGANTTCCNNCTNAANTNCTGGNTTAAANNTN
NNGGNANNAATTTTTTTAANAATTTNAAAAGGNCTGNGCNANNNAANGNGNNCNTTNNNA
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NGGNTTTNNAAANTTTTGGNNGGGANTTAAANNNGTCNTTTNAATTTNAAANTTTTTTTT
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AGGGGGAATNNAATTCGGGGAAATGCCCCCCCCCGGCTCCANGGGNNTTTTTCCGGNTTN
NTTAAAAACCCTNNTTTTTNCCCCCGGGNTTTTANNCAAAATTANTCNTTTGNGNANAAN
NAAAAACGGGGNTATNTAAGNACAAGAANNCTCCGGAANAAAAAAATCNTANNANNCTTA
AAANCACGGGTTTTTTTTT
Sequence 4729
GAATNGGAGCTCCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTCTGNACNTTTTTTTNT
NNGNTGCTTGAAACTAANGACTTAACTGTTTTTTTCCGNATCNCCTNAGCCCCATGTTTT
AGACTATTTTACCCCAAAATTGTATNTATTAATTTGGCTNCCCATTTGAAAAAACAAATT
GATCTTAGCATGGNGGNTNGCTTGAGGCANTCTTTACTGANCCAGTATANTTNNAGCTAA
NACAGTNGTNTCTCATGTNAAAGTATGATTTTCTTTAGGTTTTTTT
Sequence 4730
ATANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTT
GTAAGACGAGGTCTTGCTCTGTTGTCCAGGCCTGGACAACACAGCATGTGCAGTGGTGTG
AACATGGCTCACTGCAGCCTCGACTTCCCAGGCTGAAGTGATCCTCCCGTCTCAGCTTGA
GAGTAGCTGGAACCACAGGTGTGTGCCACCATGCCCAGCTAGTTTTTAAACTTCTTGTAG
AGATGGGGTCTTGTCATGTTGCCCAGGCTGGTCTTGAACTTCTGGGCTCAAACGATCCTC
CTGCCTTGGCCTNTCAAAGTGCTGGGATTACAGGCGTGAGCCACTGTGCTACACCAAATG
TTGACAAGGCTGTGTGCAACCTGAATTNNCATACATTTGTGGTGAAAGGATAAAATGATA
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AGGACCCAGCAATTTCACTTCCCAGGTATTTATCCCAAGAGAAATGGAAAGCATATGTTT
AACAAAGAAACAACNTTTGTCCTTCCCGGGCCGGCCNGTTNTTANAACTAGTGGGAATCC
CCNCGGGCTTGCAAGGAATTTCNANTTNAAGCTTATCGAATACCCNTNGACCTCGAGGGG
GGGGCC
Sequence 4731
CGCCGGGCAGGTACAAAAATATAAATTGGATCTAGAAGAAAGGGCAATTCAGGCAATAGA
AAAATTAGTAGAAATCCCTTTAAAGGTTAGTTTGTAAAATCAGGTAAGTTTATTTATAAT

Table 1

TTGCTTTCATTTATTTCACTGCAAATTATATTTTGGATATATATATATATATTGTGCTTC
CTCTGCCTGTCTTACAGCAATTTGCCTTGCAGAGTTCTAGGAAAAAGGTGGCATGTGTTT
TTACTTTCAAATATTTAAATTTCCATCATTCTAACAAAATCAATTTTTCAGAGTAATGAT
TCTCACTGTGGAGTCATTTGATTATTAAGACCCGTTGGCATAAGATTACATCCTCTGACT
ATAAAAACCCTGGAAGAAAACCTAGGAAATATTCGTCTGGACTTTGCACTTGGCAATGAA
TTTATGGGCGCTTTGGGAATCCTGCAGATATAATAATGATAATTAAACAAAACACTCAGA
GAAACTGCCAACCCTAGGATGAAGTATATTGNTACTGNGCTTTGGGGATTAAAATAAGTA
CTACAGTTTATAGAACTTTTNTACTGGATACACAGACCACTAAAAAAGGGAAAAG

Sequence 4732

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTGGTAGAGGAACTGCTGTAAAATCTTTGTT
AGATAATTCCAACATCTCTGTCATCTTGACTTTGGCATCTATTAATTGTCTTTTTTTTCT
TTCAAATTGAGATGTTTCTGGATCTTGGCATAATGAGTGATTTTCTATTAAAACCTGGAC
ATTTTGGATATTATGAGAGTCTGGATATTACTTTGACTTTCTGTTTTAGCTGGCTTTCTC
TGACACTGCTCTAAAAGAGGCAGCGCAGGGAGGCACTTCCCCTGTTACTACCAACTGGAG
GTAGAAGTCTAGGTTCCCACTCAGCCTTTACTGGCACCAGGGATGGGGGCCTCCTTGTTA
CTGCATGGTGG

Sequence 4733

AGGTACGCGGGGGTTCCTCTTGGTAGGTGCTTCTCTCCCAGACTAAAATCTGATTCTCAG
CACAAATCTCGCCTTCTATTTACTCAGCTATTCCTCCTCTTTAGAAACAAAAGAAATTAG
TGGATGCTGGGCTTCAGAAACTCCTGACCATGGATCCAACCAAGAGAATTACCTCGGAGC
AAGCTCTGCAGGATCCCTATTTTCAGGAGGACCCTTTGCCAACATTAGATGTATTTGCCG
GCTGCCAGATTCCATACCCCAAACGAGAATTCCTTAATGAAGATGATCCTGAAGAAAAAG
GTGACAAGAATCAGCAACAGCAGCAGAACCAGCATCAGCAGCCCACAGCCCCTCCACAG

Sequence 4734

CTATAGGGCGAATTGGAGCTCCCCGCGGGGGCGGCCNAGGGNCCGGGGAGGNNTTNCCCA
GNAATTAATNATGGCNTNGTTNGATATTGAAAGCAAAGTGGACCCTTCCAAGGCCTGGGG
AGAAGTGAAGAGACAGATTTATGTTGCAGCCTTCACAGTGCAGGCAGCTGCAGAGACTTT
TGAGTGAAAGTAGCCTAAGAAGGATTNTTTTAGAGAAATCCGTATTGAATTTGTGTGGTA
TGTCACTTCAGAAAGAATCGTAATGGGTATATTGATAAATTTTAAAATTGGTATATTTGA
AATAAAGTTGAATATTATATATATAAAAAA

Sequence 4735

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACAGAA
AGAGATCATTTTGGAGAGTAAGGCTTTTAGGAGTTCTGTGCCAGAAATGGGGTTAAAGAT
AAAATATATGTTTACTAGTATCATAAGGGTTATGATGTATAGAGGGGGCTCAAACTCACT
AGGAATCCAAGAATACAAAAATAAAAGACAGGCCGGGAGCAGTGGCTCACACCTGTAATC
CCAGCACTTTGGGAGGCTGGGGCAGGAGGATCGCTTGAGGCCAGGAGTTCAAGATCAGCC
TGGGCAACATAGCAAGACCCTTTCTNTGCAAAAAAATTTAAAAATTAGCCAGGCATGGTG
GCACATGCGTGTAGTCCTAGCTACTCAGGAGGTGAGAGGATTGTTTGAGCCTGGAAGGTC
GAGGCTGCAGTGAGCCATGA

Sequence 4736

AAAAAGGGTGGGGAGTGCCCTTTNTTGAAGGAATCCNTTAAGTGCACGTCTCCCGTTTTC
TTTTCACATCAATGCAGAGTCCCTCTGTGAATTTACAACACCCAACACCCATGAGTTCAA
GTTCCTTAAANGAAGGGAAAAATTTTANNCCAAGGTATTTNAAAATTTGGGTTNGGAACC
ATTTGCTATAAAAAANGAAAGGGTGCCCATTAATACCCAGNGCCTTAAACCTCTTTANNA
AAAATTTTTTAATNTGCNTNCANAAACCTTTTAGGACTTGGGGCNCTTCNTTTTTAATTT
ANCCTTGGGCCAAGGAAGNGAACNCNAATTTTNNTTTNANNGATGGGGCAACNNTNGGGN
GGGGAAAAAATCNTTTTGGGGCTAACNCCCCANGGAAAANGAAAA

Sequence 4737

CCGGGCAGGACCCCACCATACAAGCCAAGGGAGCTTCAGGTATTACAACCTGGATCATAG
CCACGGTCTTGGCTTCTCTCACTTTTCCCCTGGTTTTGGTCCTCACTTCCAGTTCTCCAA
AATCTACCTGTGTCCTGACTCTGGCTGTGATTCTACTCTAAGTGCCATACACATCCCTTT
CACCACTGACAGATTTTGCTTCCCTGGTTGTGACATTCAGCATTCTCTACTGCAGGGCTT
CTCAACCTTGGCACTATTGGCATTTGGGTCTGGGTAATGCTTTGCTGTGGCAACTGTCCT
GTGCATTGTAAGATGTTAAGCAGCATCCCTGACCTCTGTCTACTAGATGCCAGTAACACC
CCATCATTGTCAAATGTCTCCTGGGGCACAATGTGGCACCTGGTTGATAAACACTGATCT
AC

Sequence 4738

Table 1

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTCGTAGAGACAGTGTTTCACCATGTTAGC
CAGGCTGATCTCGAACTCCTGACCTCAAGTGATCCACTTGCCTCGGCCTCCCAAGGTGCT
GGGATTGCAGGCATGAGCCACTGCGCCTGGCCCTAAATACTTTTCTAGTAAAGAACATAA
CCAGTTACACTGAAGGCTTTGAAAGTCTTCAACTGGTATGAATCCTAAAAAAAAAAAAGA
GCACCAAGTCTACAGGGAGCTTTCAGGATGGAGAAAGCCCTTNCAAATGGGAAAGGAGGT
CAAAACGGATGCTGCCATTACTGAAAACCAAATGCCTTACTATGTCATTTTCCTAAATAA
CCAGCCTTCTTAACCCTTTGGGACTTAACCNTAAAACCCCAGGGAAATTCCAGGAAACCA
TTTTATAAAATTAAATGGCCANGGGCTTGGNTTAGGGGAAACCATTTTGGAAA

Sequence 4739

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGGCGGCCGCCCGGGCAGGGTACCCCCAGCT
ACCTCCCATGTTTCCAGGTATCATTGGCTCTTAACTCCCACAAGCCCGCCTTTTGGCTAC
CCATCCCAACAATATCAAGAGGGAATGACTAAGTATCAGCTAGAAACTTAGCCATGTCTC
AACATTCCTGGANTATNTGAAAAAGCTGTCCGATGCCCTTTTACAGGTTTATTGGTGACA
GACCCGTATCATCTTAAAGTATGTTCATAGTTAAGGCTTGACTTAAGAAAATAAGAGAAC
CAGACATAATGGAAAGACCTCTTCAATAATGTTGTCATGCCTCTCAGTGAACGTGCTCAC
AGTCACGCTTGGTTTGGCTCCCCAAACCCACAATAGAAAAGGAAAAATGAGTATTTTGTT
TTTCATCTGTTTTGTATTTAAAGGCATTGGGTTACTTCCTCCTGCCCTCTT

Sequence 4740

GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCACGGTACTTTAAACAATTGCTTTGCTGAGA
TGTTGTTAATTTGTAGCTTTGCCCCAGCCACTTTGCCCCAGCCATTTNGACCCAACCTGG
AGCTCACAAAAACATGTGTTGTATGAAATCAAGGTTTAAGGGATCTAGGGCTGTGCAGGA
CATGCTTTGNTAACAAAAAAGTTTACNAACAGTATACTTGGTAAAAGTCATCTGCCATTC
TCTAGTGTCAATAAACTAGGGGCACAATGCACTGNGGAAAGCCGCGGGGACCTNTGCCCT
TGAAAGCAGGNTATTGTCCAAAGTTTNTCCCCATNTGATNGTCTGAAATATGGCCTNATG
GGATGAGAAAGACCTGACCGTCCCCCANCCCAACACC

Sequence 4741

CGCCCGGGCAGGTACGCGGGGGGGTGCTCTTGTGAGCTGCTGCTCCTGCGGTTGGTGAGA
TTACCTGGGTCTAGAGTGCGGAGCTGCTCCGTGGCCACGAGGACGTCACCATGCCCAAAG
CACCAAAGGGAAAAAGTGCAGGACGGGAAAAAAAAGTCATCCATCCATATAGTAGAAAAG
CAGCTCAAATTACGAGAGAGGCCCACAAACAAGAAAAAAAGGAAAAATTGAAGAATGAAA
AGGCCTTGCGTCTCAACCTTGTTGGTGAAAAACTGCAATGGTTTCAAAATCATCTTGATC
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ATGAGACAGCAAAGTTATCCCGTTTATTCATCCGATCATTTAATTGACATTTATGGAGTG
CCTAGTATTTTCTCAATACTGCGCTAGAAGTGCTGGGAAGAGAGAGATAAAAATAAATGA
TACTCTCTTGTTCTCAAGTTGCTTGCAAATTTGCATGCATTGGTTCTAGTTTGGATTTTG
NCAAATCCCAAGGA

Sequence 4742

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAAGGCAGTGGTAACAACCCAGACTACG
CGGGGATATTATCAGAAACTAATTGACCTCAGAAAAGGAAATACCCAATTCCAGCCTACT
CTAGTTGTCCTGTCTCCCTAAAGGGATAGGGGAGAAACTGAGAAGCACTTGTGTAAGTTT
ACAGTCCAGGAACACAGGCTCACTTAAAGATTGAGACCTAAGCAAGCATGGGTCTATAGA
ATGTTTTCCCCTGCCCCTAAACCTTAGCAACACATTACTAAAAGCCCATACAAAGCAGTT
CCTTTTACCTGGTCCATCATATCTGGTTATCAAGAAAATATTACAAAACATACTAAAGGC
AAAAAAAAAAATCCACAAGTAGAAGAGGCAAAAGAAGCATTAAAACCAGAATCAGGATAT
GGCAAGGGATGCTGGAATTATTAGAAAGAAAA

Sequence 4743

CGCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGA
AGGCAGTGGTAACAACCCAGACTACGCGGGGATATTATCAGAAACTAATTGACCTCAGAA
AAGGAAATACCCAATTCCAGCCTACTCTAGTTGTCCTGTCTCCCTAAAGGGATAGGGGAG
AAACTGAGAAGCACTTGNTGGANGTTNACAGTCCAGGGAACACAGGCTCACTTAAAGATT
GAGACCTAAGCAAGCATGGGTCTATAGAATGTTTTCCCCTGCCCCTAAACCTTAGCAACA
CATTACTAAAAGCCCATACAAAGCAGTTCCTTTTACCTGGTCCATCATATCTGGTTATCA
AGAAAATATTACAAAACATACTAAAGGCAAAAAAAAAAAATCCACAAGTAGAAGAGGCAAA
AGAAGCATTAAAACCAGAATCAGATATGGCAAGGATGCTGGAATTATTATAAAGGAAA

Sequence 4744

CCGCGGTGGCGGCCGTCCACATCCCGAAGGCCATAGCGTCGAGCAAGGTCACAGGATGGC

Table 1

AGCACCTTACCACTCAGGCTCAGGATATTGGGATCTGCTTCAACACAGGATCCTGCAGGA
CCTCCTCCTTTGCCATATGCTCCTTCAGCAGTTCTGTCTGCACAATCCCCCCCGCGTACC
TGCCCG

Sequence 4745

TACACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGCCCTGCAGGCCTCT
GCCCTGAAGGCCTGGGGCGGGAAGAAGGAGAACCTGAAGGCTGCGCAGGAGGAGTATGTC
AAGCGAGCCCTGGCCAACAGCCTTGCCTGTCAAGGAAAGTACCTGCCCGGCGGNCGNTCT
AGAACTNGTTGGATCCCCCNNNCTTGCAAGGAATTTCGATATCAAAGCTTATTCGATACC
CGTC

Sequence 4746

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGAGGTACGCGGGGATCTTAT
TCTGGCCTTGGCGGANTTGGGGATGGTGTCNCCTANCAACCCGCTGCCGCTTTGGCTTGC
TCGGGACCATNTGGCTGGACCCAGAGNCCGCGTGGAACCGCTATAGGGATCTGTCANGGG
CCCGCNGCCGCTCTAGAACTANTTGGATCCCCCGGGCTGCTNGAAATTNGNATNTTA

Sequence 4747

CCGCGGTGGCGGCCGAGGTACAAATTCTAACTAGAGTAAGAGTTCCTGGATGTGTCAAAA
ATCGTCACCTTCCCAACTCTTACATATGTAGGACAGTGACATGACTCCTGCCCACAGAAG
AACACACCTGTCCTGCCCTCTCCCAACAATGGAATGTTACAAAGCAGGACACGCCTGAGT
TAAAATGAGTATCCCTGAGGTTGATAATTCCCACCATGCACCTTGAAGATGGTTCTTGAA
TCTTTCATTCAGCCCGATGAAGAGAAGATTCATTGTAGCCAGTGTCACATTAGGTGAGAA
AAATTCAGAAGGCAACAGATTTGCGCTGCTGCACCAGCGACCCAAACCAGCCCGTGAGTG
CATAGCTACTGCCAGCACTTAAAGAAAGGTGAGCCGTTGGATACTCTGGGAAACCGAGAA
AGCACCTTCTACTGCAAGCGTGAAGAACATGATGCCCACAGAAAACACAACAGAAACAAG
AAGTGAGACTCTTGAAGGTAATTTCC

Sequence 4748

CTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCAACAAATAACTT
AAAGATTTCCGTGTGGCGTGAAACCATTTCAATTTGAACTAATATCCTTGAAAAAAATCA
CATTATTACAAGTTTTAATAAATACAGTAAGAAGAGCTGGCATTTTTCTAAAATACTGAA
TTTCAGATCTGGAGTTTATTCCATAAATAGGNTTCTTTTCANTTGCTGCTTTCTTGGGAT
ACATTTGCTCAAGTATTTATTCTCTATGAAGTGAACTCTTTCATAGATACCATATAAAAA
CTGTATTAATATGTGCCTCATTATAGAAGCAGCTGGAAGAACTGGATCACACAGTTACCT
AACTGAAAAGTNACTTAGGAAAAAGCTCTGCTTTTTGTAAAACTTTAAATCACAGGCTGA
AGAATACCAANGAAACATTTATATAGAACTCCCACTAGAAATTTTATAAATATATATGTA
GCATATTTATATATAT

Sequence 4749

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTGCCACAAACTGA
TCACACTGCTTCTGGTAAGGGTCTGGCAGGAAGCTGCAGCCTTTCTCAAGAGCAGCCAGG
ATCTCCTGCTTGGTGCTGTTTTTCTCCAGGTTGCGATCCAAATAACCCACCAGCTTCTTG
CACACTTCGCAGAAGCCACCGTCCTTTGGCTGAGTCACGTGAAACGGGTCANTGCATGCA
GCCCGCGTGCCAGAGCANAGGTGCAGCATGCTNCACACCAGCTCAGGGCTGACCTCCTCC
AGCAGGATGGACAGGATGGAGCTGCCGTACGCGGGTATCTGTCTTTCACCTAGTGTGCTT
TTTGTGTGCACACTATTCACCAAGCTTTGTTCAAATTTGCAAGGGATACAGAAAGGACTG
NGAAAGNGACTGGTGGATGAGAAAAACAAAATATCTT

Sequence 4750

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTGAAANAAGGGGTCACGGGGGCTCCTTGATATTAGGGAACAGGGACCTGA
GCTTTTACAGCCCTTCATATTTATTAGGTANAGTGAATAGGGAG

Sequence 4751

TAGGCCCACCGCTGCTTCTCAGGCGGCAAAGACTANTATGGCAATAGGCACAATATTGGC
TAAGAGGGAGTGGGTGTTGAGGGTTATGAGAGTNGCTATANTGAACAGCCGATAGTNTTN
TTTCCTTCTANGCANTAGTACNGGAGGATATGAAGGTGTTGAGCNATATACTAGTATTCC
TAGAAGTGAGATGGTAAATGCTAGTATGATATTTATGTAAATGAGGGGCATCCCGCGTAC
GGATGCTACTTGTCCAATGATGGTAAAAGGGTAGCTTACTGGTTGTCCTCCGATTCAGGT
TAGAATGAGGAGGTCTGCGGTTAGGAGTCAATAAAAGTGATTGGCTTAGTGGGCAAAANA
TNATGCTTTGTTGTTTGGATATATGGA

Sequence 4752

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGTCT

Table 1

GATCGCTAATGACAGTTGGTTCTGTTATCAGCCACCAATCATGTTAAATACAGTATGTAG
AATGGTTCAAATCTAGGAAGCATTTCGTTTGCAAAGAAACCTGTATATTTACAGACTTTA
AAAGATGGATTTTTTTTTTTTTTAGAGAGAGACCTTGTATAATTTTTTNAAAACAAAGCTT
TTTTGAAAAAAGGTNGGGCAGTTTTCTTNGGGNGTGNGGGGGGGAGNGGA
Sequence 4753
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCATTTAC
TTCATAATTTCTTTTTTCTGAAGATAACTTGTTGCTTTCAGTTGTGAAATTAAAGTCCAA
TGAGACCAAGTTAGTATAATTCTCCAACATCACATCTCTGTACTGGGTTCATCTCACTAG
GGAGTGCCAGACAGTGGACGCAGGACAGCGGGTGCAGGGGCACCGTGCGCCAAGCTGAAA
GCAGGGGCGAAGGCATTTGCCTCACTCGGGGAAAGCGCAAGGGGTCAGGGAGTTCCCTTT
CCAAGTCAAAGAAAGGGGTGACAGACGGCACCTGGAAAATCAGGTCACTCCCACCCAAAT
ACTGCGCTTTTCCGACGGGCTTAAAAAACGGCACACCAGGAGATTATATCCCGCACATGG
CTCGGAGGGTCCTACGCCCACGGAGTCTCGCTGATTGCTAGCACAGCAGTCTGAGATCAA
ACTGGAAGGCAGCAGTGAGGCTGGGGGAGGGGCACC
Sequence 4754
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTCTCTCGGCCTT
AGCGCCATTTTTTTGGAAACCTCTGCGCCATGAGAGCCAAGGTGAGCGGTTCCTGGTAGT
AAGCTTGGGAGGTAGGAGTTGGCGAGTAGTAGCGAGGAGACGAAGGCAAGTCCGCCATAC
CTCCTGAACTACTGGGTTTCAAGGGTGCCCAAAAANCTGTTGGGAGAGAGAAAGGTAGTT
TGTGAGAGAGCTAGCGGTTAAGTGCTATGGGTAGAGAGGGTGGGCTTAGAAAAGGGTGGA
ATTCTGATCTTATGTTGGGAGGGTGTCCAAGTTACTGATGTAAGTTGTTACGACCAATCT
TTCATACTTCTTGGTTAAGAATCTGTCCGGTTCTAAAGAGTGCATTTCATATCCTTGCTA
AGCCTACTAATAAGCTTCATCCCTTTTTTTTTTTTTTT
Sequence 4755
CTACTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGTCACTTTCCTGCGCCCGCTCT
CCTGCGCCAGCTTGAAGGCATACTCGGCAATGCGCAGGGACTTGGCCTTGGTGATGATCT
TCAGGCTCTCCACCACTCCCGCCACACTCTCATGCTCCAGGCTGCTGTACCT
Sequence 4756
CCGCGGTGGCGGCCGTCGCTCCCCTGCTCCTCCTTGGTGGCTCTGTTTGGAGACAGGGCA
GGTGAATGCTCCCTGGATCTGTTGCTCTTTTTCCTTCAGCCTTCGGGCTGACACTGACTC
CCCGCGTACCTCGGCCGAGGTACTCAGGACTTTTGCGGTTCTGTAAAATCTGTTTGTCAG
TTTCTTTGTTAGCAAAGTATCTAGTGCAGCCTCGGGTTTAAATACCGAAAAATTATCTGG
GTGAACTCAAATGAAGTTTTTCTCTAATATCTTCAGAAGCACCAGCACACAACCTATAAA
AGATATGATAATTTCTTTCCTCTTTGCCTTGAACACAGATCCTAGATTTCTCTAGGAGAT
AATGTGAAACAAATCCTCCAACAACTGAGCTCTTTTCATTAAAATGTATTTCTACAAATT
TCCCAAATCGACTGCTATTATTGTTGCGAACAGTCTTCGCATTTNCAAAGGCTTCTAGGA
GTGGGTTAGCTTCAACAAT
Sequence 4757
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTTTTGGAGACAGAGTTTCACTTTTGTTGCCCAGGCTGGAATGCAGTGGCACGATCTCC
GCTCACTGCAACCTCCACCTCCCAGGTTCAAGTGATTCTCCTGCCTTAGCCTCCCAAGTA
GCTGAGACTACAGGCATGTGCCACCATGCCTGGCTAATTTTGTATTTTTGGCAGAGACGG
GGTTTCGCGATGTTGGCCAGGCTGGCTTCNAACCCCTGACCTCAGGTGATCCACCTGCCT
CGGTCTCCCAAAATGCTGGGATTACAGGCAATAAGCCACCGTGCCTGGCCGGCTCTGGCC
TNTTTTTTTAAAACTCACTAGATTTTATGGAAGTTTCCTGACACCGCAGCAGTCTCAAGA
CACCAGTGCCTGAGTCACTCCCTGTTCCTGACAGG
Sequence 4758
CCCGCGGTGGCGGCCGCCCGGGCAGGTACAACTGAATAATATGAGTCCTGCCATTTCTTT
TATTTACACTCTTGACTCAGCAAGAATTATGACAGAAGTCCGCATGGTTATCTGCAGCTT
GTTAAGTCTTCTACAATGGCTTGGACTTTATAACCCACTCAGCATTTGGGTTAAAGCTGA
TATAAATCCTTCATGTAAGTGTCATCATCAAGGCAGCGTTCCCCAATATTTCCTCCCCCG
CGTACATTCGTGGTCATAAAATCTGCAATCTGCTGTAATGCCAATAGGCCTGTGGGGTTC
TTCCCCTTCTTAAATTGCTCCTGTATCATTGATTCC
Sequence 4759
ATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACAGAAAAACATTCCGCCCACGACGCCACC
GAAGCTGTGGCCCAGAATGGAGAATCGATTCCATTTCAAGGCTGCCACAACTCTTCGGAT
CTCACTCACAAAAGTCTGGAAGTAATATGGGACACCTGGGCTGTAATGGGACGAGAGCCC

Table 1

ATGACCTCCGAAATCCATGGCAACGTAATAAAAGTCTTGCGGGAGAAGAGGGATGAGTCT
GTCGAAGGAGCTGGCATTGTCCAGCCAGCCGTGCAGGCAGAGAACTGGAGGGCCCTGCAG
GGAGCCCCAGGCTTTGGCTGCGATGTGGCCCCAGGGCACAGCCAGCTTCAGCTCTGAGAT
CAGACCTTCTAGAATGTGCTGGGGCGGGGGCGCTGGTCAGGCCTGGACCCCATCACTTGC
TGGCTGGGTAACCTTGGAGAAGTTACTAAAACGTCTTGAG

Sequence 4760

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTCAGTCCT
ATAGCTGCAAGGAATTGAAACCTGCCAACAACCTGAATGAACTTGGCAGAGGACTCTGAG
CTTGTGATGAGAACACATCCCCAGCTTGAAATCAAATCGACATATTGATTTTAGCACTGT
GAGATACTGAGCTGAGAACACAGTTCAGCTGTTCCTGGACTTCAGAACCACAGAACTGAG
ATGATAAATGAGTGGTGTTTCAAGTTGCTAAGTTTGTGGTCATTTGCTTACAGTAATTGT
AAACTAATGCACAAGTGTAAGTTTGTTTTCTTAAAGAAGAAAAAAACGGGGAAGGAGGTA
AGGTGTTAAAGGGATCAAAACTTCTT

Sequence 4761

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAATGGTTTATTAAACGGAATG
TATGGCCCACATCAACCTAGCAAGGATTCTACTGGTAAACCT

Sequence 4762

TCGACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCG
GGGGCGGCGACGACCCATTCGAACGTCTGCCCTATCAACTTTCGATGGTAGTCGCCGTGC
CTACCATGGTGACCACGGGTGACGGGGAATCAGGGTTCGATTCCGGAGAGGGAGCCTGAG
AAACGGCTACCACATCCCAAGGAAGGCAGCAGGCGCGCAAATTACCCACTCCCGACCCGG
GGAGGTAGTGACGAAAAAAAAAAAAAAAAAAAAAGTNCCT

Sequence 4763

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CGGGAGACTCGCCAGGGGCCCTCGTATCCCCGGCAGCGCGAGTTTTGGAGGTCAGTGGAG
GGCTCTCGCATCATGCATGTAACTTTCATACTCAAAGACTTACCTTCATCCTGCATCCCT
CACCCCCCTGCAGAAACTTGGGGCTTGAATTCATTTAAAAACATTTGCGGTTTCAGAAGC
CTTCTTTTTATTATGAAGCTGCCAAGGAGATCTTAGAATGAAAGGCATTTTTAGAGATGA
GAAAGAAGGAAGCCAGGCCAAGGCTGGGCCGGCTCTCAGCCGTGGGTCTGTAAAGGTGAC
ACGTGGGACATGGCCACCTGCATACCCTGCAGGCGGCTGGGCANNAGGCACCCACAGGGA
CCTTGGGTTTGAATCCCTG

Sequence 4764

CCGCGGTGGCGGCCGAGGTACGCGGGATTGTAGAGACTATCCGGGTTAGTTTGCAAGGGA
AGCCAATGATGAGTAATTTGAAAGAAATTCACCTGGTGAGCAATGAGGACCCTACTGTTG
CTGCCTTTAAAGCTGCTTCAGAATTCATCCTAGGGAAGAGTGAGCTGGGACAAGAAACCA
CCCCTTCTTTCAATGCAATGGTCGTGAACAACCTGACCCTCCAGATTGTCCAGGGCCACA
TTGAATGGCAGACGATGTAATTGTTAATTCTGTAAACCCACATGATATTACAGTTGGACC
TGTGGCAAAGTCAATTCTACAACAAGCAGGAGTTGAAATGAAATCGGAATTTCTTG

Sequence 4765

ACTATAGGGCGAATTGGAAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGGCAGGCTC
CCAGCCGAGTCCGTTATGGCCGCTGCCGTCCCGAAGAGGATGAGGGGGCCAGCACAAGCG
AAACTGCTGCCCGGGTCGGCCATCCAAGCCCTTGTGGGGTTGGC

Sequence 4766

CAACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCACACGGGG
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CGCGACGCTGGCGAGGGCACTTCCCCTCAGCACACTGGCAGACTTCAGCAGAACACAAGG
TGGCCAAGAGTCTGCTNTTACTTTGGTGCCCCCGTANAACACAAAAACATCTGCGCTCGG
GGTTTGTAGTAGTCGTACTGCGGCGGGTAGGCCTAGGATTGTGGGGGCAATGAATGAAGC
GAACAGATTTTCGTTCATTTTGGTTCTCAGGGTTTGTTATAATTTTTTATTTTTATGGGC
T

Sequence 4767

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGCTTGACTCAGGATTT
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AATGTGGCCGAGGACTTTGATTGCNCATTGTTGTTTTTTTAATAGNCATTTCCAAGTATG
ANAATCCNTTTGTTTACAGNGAAGTCCCTTTGCCATCNTAAAAGCCCACCCCACTTACTT
TCTAATGNANAAATGGCCCACTCACTATTTCNAAANNNCCANACCCNGGGNNAGGNANAN
AGACANCTNCTTTTCCNTNGNAAAATCTATTGTTTAATGCCACAAAANNTTTTTTTTAAA

Table 1

TCCTTCNNNCNGGCCAAAATGNANAAGNGNNNNATTNTCTCGANANTAATTTTTTNNACA
TTNCATTNAANCCCNTTACGTTGCCCCCCCCCCTTTC
Sequence 4768
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GATACATGCCTGCCCTTCTTGCTTACATGTGAAGTATAACCAAGTGCCAAATGCTTTTAT
AATTNACTAAGCAGCCCCCANCCTCNCCCTGNTNAGAAACAGAAAGCTACTTGCAAGGCC
CCTACAAAGTGAGTGAGAGTGTGTGAGCTCCTGCTTGAANAGGTGAGACCCANATCATAG
TTCTACTTGTTTCTCTATGAAGTGGAAATACANAANAAGAAGCAAATTGTAAGCATAAAA
TTGTCTATGTTTT
Sequence 4769
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GAAGCAAATAAATCAAGAATAGAAACCTATATATAGGAGGTTGGGCCTCCTGCAAAGAAT
GAAGCACTTTTTGTTAAATACAGGAGAGGCTACTTGGCTGCACTAATATGTGCTTTTTTG
GGAATCTTAATAGAAGTGTCACCAAAGTTGAACTTTTGGGAATGGGCTTGAATCATCCCT
GGGAGCATCTGTGCCGGGCAGTCAGGAAGTGAGTGCACCGCCTNCCACCCAGCCCCATTG
GGCCTCACACCCTCTTCATTCCTTNTCCCCATGAGGCAGGCAAACACGGTCATGACCATT
TTGGGGGTTCACTTTCAACCATGGTCTTCTTGGCAGGGCATACACTCTTTGGCTCCCAAA
T
Sequence 4770
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TGCAGCGCGGACGGCGAGGAGCCCCCGCGTACCTTTGGCCNGGTCTAGAACTANGTTGGA
TCCCCCGGGGCT
Sequence 4771
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CTTACCCTGCCTTTNCATGTGGGTCANGATATGTGATCTCCAAGGACATCNNNAAGTGGC
TGGCAAGCAACTNNGGGAGGTTAAAGACCTATCAGGGTGA
Sequence 4772
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GAATCTCTCACTACATGAATACATGAGTATGGAATTATTGCAAGAAGCTGGTGTCTCCGT
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TAACAATGGAAAGGTCATTTCAAGGTCCTGTATTAATAGGGA
Sequence 4773
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GCGAGGACTGTACTGCGGCGGGTAGGCCTAGGATTGTGGGGGCAATGAATGAAGCNAACA
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Sequence 4774
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AGTGAGAATGCTCAGTTACGAAGGCAGTTGAGAATTTTGAACCAGCAACTCAGAGAACAA
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CAGAGTAAAAATGAAGAGCTGTTAAAAGTGATTGAAAATCAGAAAGATGAAAACAAAAAA
TTTAATAGTATATTTAAAGACAAAGATCAAACTATACTTGAAAATAAACAGCAATATGAT
NTTGAGATAACAAGAATAAAAATTGAATTGGAGGAAGCCCTAGTCAATGTGAAAAGCTCC

Sequence 4775
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Table 1

TTCTTTNCTTTNTTTTTTTNTTTTNTTTTTTTTTTTTTTTTTTTTGTTCAAAATTCATCC
AATNTTTATTGAATCGGGAACGGNNGCAAACGTTGCCANAATCAAAAACCCACCCATCCN
GATCCTTTTTTGGCTTCCCCTTG

Sequence 4776

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGAGACTTCTCCGCCGCCTCCGCCGCA
GACGCCGCCGCGATGCGCTACGTCGCCTCCTACCTGCTGGCTGCCCTAGGGGGCAACTNC
TNCCCCAACGCCNANGNNNTTAAAAANAATTTNGANCAGNNNGGGTTTCANGGCGGNCAA
CNACCGGNTAANNANGGTTNTNANNNANNTNANTGGAAAAAACATTGAAGACGTCATTGC
CCAGGGTATTGGCAAGCTTGCCAGTGTACAGGTGAAATGATATGTTACTGGTATTCGCTT
CAAAATCATCTGAGTGTGGGGTAATTGAGTACCTCGGCCGTTTTAAAATAAGTGGANTCC
CCCGGCNTGANGAATTTCANNNTAAACTTNNTNATTCCCGNNCANCNTCAAGGGGGGCCC
CGN

Sequence 4777

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GTTTTGGCCAGGATGGTCTCAATCTCCTGACTTCATGATCCACCCTCCTNGGCTCCAAAG
TGCTGGGATTACGGGCATGAGCCACCGCGCCCGGCCAGAATAAGTCCTAATTTTTAACTC
TTCAGAGAGTGAAGGAATAACTCCAAATAGACTCCCAGAAGTTATGTTCAGATAAGTAAA
CCATCATGCTTACATTCAGAAAGTTCTGCTTCTCAGGTAACTTAAATGGAAA

Sequence 4778

CCGGGCAGGTACANGATCCCAGACTGGTTCTTGAACAGACAGAANGATGTAAAGGATGGA
NAATACAGCCAGGTCCTAGCCAATGGTCTGGACAACAAGCTCCGCGANAGACCTGNAGCG
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GCACACCAAGACCACTGCTCGACGTGGCCNGCACCGTGGGTGTGTTCAAGAAGAAATAAN
TCTGTAGGCCTTGTCTGNTNATAAATAAGTTTATATCCCCANGNCANANAAGGNCACCTG
GAAAACGGNCCTTTTTTTTTTNTTNTNTTTTTTGCNCTCCTGCTGCTTCTTGNATGTGGT
ACCATTTNTGAAGNTTCTTNTACGGAATNCAACCCTGATTCCNTTCACCNCTGGTCACCA
TGGTTGGCNCGGCACTACCATTGNAAGTTGATTGGGCCNACNTTCAANTGGGTTGTCGNC
NCCCCCCGAGTTCCTTGGNCGATTTANAACTAATGNATNCNCCGGTCTTGCAGGAANTNC
ATNTCAAACTTANTNGATCCGCCCCCTCAAGGGGGGGC

Sequence 4779

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ATGGCAAACATCTGTAGCATGACAAGCATCAAACTGGATGGAGTGGAATTGAACCANAAG
ATGGCCAGCATTTTGGGCATGGATGAAGTGGAGATGANGATGTCAATGCCTGAAAGCATG
CAAAGAAATATATACATGGGCTCATGCAGGCTGTGCTCAGTCCGCACAATGTAGATGATT
GTCAAGTTACCTAGCACAGCAATANNGTAGAGGGAGCACAATGGGAAGGCCACCAGAACT
GAACCTCTTCTAAACCAGGGAGGCCTATTANGATGAAATATGTANCACTGGATTCATTGC
CATTGGGATCCANCATCATGAAGAAGCTGAACTGTGACCAGCACCAGGCANGTAGANGCT
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Sequence 4780

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GGTTTTTGT

Sequence 4781

ACTATAGGGGCGAATTGGAGCTTACCGCGGTGGCGGCCCGGGCAAAGGAGAAAGAAGATC
CAGGCCCTCATGGTGCTGGGAACCCTCAGTGGCANGCAGGCAGGCGGCAGGCAGAGCGCG
CTCTCCGGGCAGTCTGAAGGACCGCGGGAATGTCCCCGCGTACCTCGGCG

Sequence 4782

GGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACCGGGCTCCTCACAGC
TCCACTAGGCACTGCCCCACTGGGGACTGTGTGGGGGCTCCGACCCCACATTTCCCTTCT
GCACCTTCCTAGCAGACGTTCTCTATGAGGGCTNCACCTCTGCAGCAAACTTATACTGAA
CATCAAGGCATACATCAAGGCATTTCCAT

Sequence 4783

CGCCCGGGCAGGACTTGGGACAGTTACAGGCATGCTGCTATTGCCATGATCTTCGGGAAG
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Table 1

AGATGCAAAACCAAAAGCTTTTACTCCAACATTGCTTANCCAAGCTAAGCACATGCATTC
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AGGGGCATATAAGAATGGCCATTGCAGCAAAGTTCTGGTTGGGGTAGGGGGAGCTGAAAG
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CANACAGATGGGTGAAAGGATGGTCANTCCTTACATTGGCCAAGNTTCCTTATTCTTAGG
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Sequence 4784

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GGAAAAAAAAAGGNTTTNGGNAAAAAAATTTTAAAAAATTTTNGNGGNGNAAAAAAAAAA
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Sequence 4785

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CAACTCGATGGTTATTACAGAGCCATTGCTGTAAGGGGACAGCCTTGACATCTGTGAAAT
GGGGATAAAATTAGCCTAGACATGTGGAGAAGATCAAATGAGGTATTGAGTGTGTGAGCT
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TTGGGAAGGGC

Sequence 4786

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AGAGCGACTGGGACACGGTGACGGTGCTGCGCAAGAAGGGCCCTA

Sequence 4787

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Sequence 4788

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Table 1

GCTTGTCACTTCCAAGGCAAAAAGGGCAGCAAGCAA
Sequence 4789
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CACAGATCTCTAGGTACAAGGCAAATGCTGCCAGTCTCTTTTGNTAAAGCATAGGAAAGG
AGTCACCTATGCTNCCAGTTCC
Sequence 4790
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ACAGAACACAGGGATTGATAAAGAATGAATGAGGAAGAATGAAGACCACTGGTGAGATGG
CACTTCTGACCANGGGCCTACTCCTGGGAGGNCAAGTCCTTGAGTCCCATTGGGAGGGAG
GGAGTAACCCCTC
Sequence 4791
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CCTGGTTAGCTTCATTTTTTTGCAGAGACGAGTTCTATGTTGCCCAGGCAAATCTGTTAA
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Sequence 4792
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CTTTTCGCTCANTTTTCAAGTTGAGGACACCACACCAAAGACGTTG
Sequence 4793
CCGCGGTGGCGGCCGAGGGACNNGGTNCTTTTTTTTTTTTTTTTTTNGCTGGGATATCTT
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NACACCTAAGCGCCAANAATGGGACCTNGGCCTTCCGGCTAGGTTTGCCCCAGGCTGGGC
AGGAAACCATCT
Sequence 4794
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GGAGGAGG
Sequence 4795
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TAGTCCTAGGATTCCTTTTCTCCTGCAAAACTGGTGGTAGAAACAGTGGCATGCGGGGGA
TGGTACATCACAAAATACATTTTGATATCCCAAAGAAGCAAGACTTGCAAGTAGGCGTTT
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Table 1

AGTCTCCCAGGCTCCAAAGGATAAAAGCAGAGTAGAATCAGTATAACATATACACCAGGA
AGTCCGTATTGTAAAGGCTATAAAGATTTGCAGCACAGTGAGA
Sequence 4796
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ATAGATAAGAAAATTAAAGAAACTTGCCCAAGGCCACAAAGCCACTAAGGGGTGAACCAT
GATTCAAACTTAGGTTTGTCTGTCTTCAGAAGTTAACTTCCTAACCACTGAATCATATTT
CATCTGTTCCACTAAATACATTTTTCTGGGGCTTANCAATGCCAGTTTATTTACCTAAGA
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GAGATCTTNATCACCTTACACTGCCCCACAATAACCCCAACAGTAACCCTGTATACAGTC
AGCTGTATTCACAGGCCAGACACAAGGAGGAAAAAGGAGTAGGGAAAAGGC
Sequence 4797
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GGGGGCATCCTTCTTCCATCCAGTATTGGGGGGTCTTTCCTCCTTCCATCCAGGACTTGG
GGGGTCATCCTTCCTCCATTCCAGGAACCTGAGGGGGTGTTCCCTTTTCTGCGCNTTCCT
TGGATGGGCAAGTCTTTTCCCTTCAAT
Sequence 4798
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TGGAATTGGTTAAATATACTATAAAACTTGGCTTATAATCAGGGATAAATCTTAAACTTG
AGGGTCTTTAAAAATACATTTTTGGCACTTACCTTTCATCTTATATTACTAATGGATGGG
AATCTCAAACATATAAAAAAAAGGAATTCAGTTT
Sequence 4799
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AACAAGCTGCTTGGTAAAGTTACCATCGCTCAGGGCGGTGTTCTGCCTAACATCCAGGCC
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CACTGGAAGGAAACCCAGGCAAGGCCAAGATGGCTCAAAGAGCAACCAGCCACCTCTGCA
GCCTGCCACCTCCTGCTGGCAAGATTTGTTTTTGCATCCTGTGAAGAAGCCAAGGAGGCA
CCAGGGCATAAGTTCTACTCACTTATATCTGTCTGGGAACATAACGC
Sequence 4800
CCGCGGTGGCGGCCGCCCGGGCAGGTACATTTAAAATTATCATCATAAATTTATGTGCCC
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TGGGTTAGTTTTGCTTTTGTCCAGGAAGTTCAANAGACTGGGAAATTGAAGTTTGTNATC
CGGATAGAAAGGTCANAATTTTAATACCTTAGGTTTCCCATTCACTTGGTTTACTGGGTA
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Sequence 4801
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AGTTGAGTGGCTGGGGTGGGGTGCAGGCAATGGAGAGAGGGCAGAAGGGTGTAGAAGCTG
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TAGAACTGCTCCGAGAACAAGCCCANGAAGACCAGGGGGGAAGGGAGGGGAAAGAAAGGG
GATACCTGTNGGAAAAGGGATGGCGGGGNAAAACATTTTAGAAGCCTAGAAGCCACTACC
TGGGGCCAATGCTAAAGGTTTCTGTCCCTTAAGCCCTAAAAAAGCC
Sequence 4802
CCGCGGTGGCGGCCGAGGTACTTTGCTTTAGAAAATATCTTAGTATTATTACTTTTGTTT
TCCAGTAACCTTGCTAAGCTTCTGAAGAACTTTTCTCTCATGTTTTCTGGTTCAATTTCT
GCTTCATTAGTATCTAAGCTACTGAGGTTATCACCACCCATGCTTTGAGACATCATGGAA

Table 1

AAACCACAAAAAATGACCCATTATCTTGAAGTGGGTGTGGCTCTGGAGATTCACATTCCA
TTCTATCTTCCATAGACTGAAGCTGGGTGCCTAAAGACTCCTTTGCAGAATCCAGAGGGA
TCATTTCTTCCATAGAAACTTCCTGCCCATATGTGCCCTGTGAGACCTGCTGTCTAGGTT
CATCAAGCTCCCTCTCCAAATCTTCCAGCAAAAGTCACCACCTCTTCTCCACTCTCAG
Sequence 4803
CCGCGGTGGCGGCCGAGGTACACGAGGCCGGTGGGCTCCCTGACATCCCTTCCAGGCAAC
CTGAAAGTACTGAAATAGCTTATGGCCCTGTGCCAGGGACCTTGGCCCAAGCTGCTGACC
TCCAGGGTGGGGAGGGAGCTACCCCCAGGAGAAGAGTCACTCAGACAGCAGTATGAGCAA
GCCAGCCAGCAGCTCCGTGCCTGCACCCAGCTCAGGGGAATCCCAGGGGGTTCAGATGCC
CAGGAAGGAAAAGGGGACAGCGCTACTGCTATGGAATGAGACCACCACTTCTCCTGTTGT
CCTTCCCAGCTTCTCCCCAACCTCCCCTTTTCCCTAGTTTATAAGACAGGAGAAAAGGGA
GAAAGCAAAAAGCTGGAAAGAAACAAGAAGGTAAGATAAATAGCTAGACGACCTTGGCCG
C
Sequence 4804
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTCTTTGCCTGTG
GGCCTTTTTCCCCCTAGACATGGTGGCATACACAATAAGTGTGTAGGAAAAGCCAGAAGT
GCCACAAAGTTAATGTCTTGGAAGCATCTGTATTCCAATGTTAAGCAAGGATTTGGTGGA
TGAAAAGCACAGTTTCCTTTCCCCTTGATGGGAATAACTCTTAGTTATATCTGACACTGT
CTTCCAGACTTTCCCAGCAAAACTGAGCTCCAGTTGCCCAGATGGGTAACCAGCTTGAAA
ATTCATACTTTATTCCTTCCCTGCTCTGTCTACTTTACTACTCCATTCCCAGTATCTAAT
AATTTGATGATTTTTAACTTCCAGTATAAACTCTTTTACAAGAAAGCCTTGCCTCAGGGA
TCGGTTTTTAGAAGTGCCAAGCCAAGCCAGGTTG
Sequence 4805
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GTTGTTGGCTAAGATGTAATTTTAAGGAAACACTTTATATTTCATACCAAGTAAGAATTT
CAATGGCAATGAATATTACCACATAGCTGTATACTGTAACTCANGGATTCTGTCAGATGA
GTGCAAACATTACCGNGCTGTAACCATNCAAGAGTCCCAGGGTCACATTTGGCAGCNCAA
AAAGTACCCTGCCCGGGGCGGGCCCGCTCTAGAAACTAGTGGGATCCCCCCGGGCTGCAG
GGANTTNCGATATTCAAGGCTTATCGATANCCCGNCGACCCTCGTAGGGGGGGGGGGCCC
CGGNTTCCCCANGCCTTNTTTGGTTCC
Sequence 4806
GCGAATTGGAGCTCCCCGCGGTGGCGGCCGGCCTGGGCAAGACTTATGATGCTGTCCATA
GCTTTGAACTCGCTGAGGGCCTGCACCGGGTTCACGTGCTTCTTCTGAGATGCCCGNTTA
ATCTTGGNCTGTGNCTCATCCTGTTTCTCTCTCTTNACCAATGGCTTTTTCTCTGGTGCC
TTCATCTTCCATGANACCCCCGCCATACCTTGGCCCGCTCTAGAAACTAGTGGGATCCCC
CGGGCNTGCANGAATTCGATATCAAGGCTTATCTGATACCGTCNACCNTCGAGGGGGGGC
CNGGTACCCCAGCNTTT
Sequence 4807
ATCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAA
GGATTTTCTATTGCAGCAGACCATGCTACGAGTGAAGGATCCTAANAAGTCACTGGATTT
TTATACTAGAGTTCTTGGAATGACGCTAATCCAAAAATGTGATTTTCCCATTATGAAAGT
TTTCACTTTTACTTTNTTGGCTTANTGAAGGATAAAAAATGACATTCCCTTAAAGAAAAA
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GGGGCACTGAAGATGATTGAGACCCAGAGTTACCACAATGGCAATTCAAACCCTTGAGGT
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Sequence 4808
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TCCCTAGTAGACTGGGATTACAGGCNCACCCCACCTTGCTCGGNTGATTTTTGNATTTTN
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TAACCTGGNCCANNNCTTTTTNAAANTTTTTTAAANNTNTNNNCCNAAAANNCCNTTTTN
NTTTGGGNCCCNAAAAAAGGGGAAANNANANNNGGNGGAAAAANCCANCCCCTATTAAAN
TNTTTTTCAAAAAGGGGCCCANAANTTTTTTTTTTT
Sequence 4809
ATACGACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACG

Table 1

CGGGGTCCAGAGTGCTTGCTACCGTGTTCGGAGTCTCGCTGCCTCCCTCCCGCGGGGGTT
TCTCCTCTTTTTGAAAATTCCGTCTGTGGGATTTTTAGACATTTTTCGACATCAGGGTAT
TTGTTCCACCTTGGCCAANGCCTTCTNNGAAAAAACTTNNGTCCCCCTGTNTGGAAAGGN
ACGGGANCCCGGACTTGGACAATNGNTCACTTCAANTACCCTTCGGGCCGNTNTTATAAA
CTTAGTTTGGNATTCCCCCCNGGGCCTTCAAGGGAAATTTCTANNATCAAAAGCCTTTAA
TTCGGAANTACCCCGGTCNNAACCTTNAAAANGGGGGGGGG

Sequence 4810

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTACTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAANAANCAAATTTTATTAAAGG
AAAATTTTNCAGGTTNAAGGTTTGCAGGNAAAATTTTNNAGGNGAAAAGGTTTANTTTTN
ANCAAATNTNNTTTCGGNCTTNGCTTTTAANTNANNGTNGAAAANTCNCCNGGNAANCCA
AANTNANAANCCACNNGGGGGCNNNCTTNTNTNAANTNTTTTTCCANANATNGCTNNGNC
CCCAANTTAAAANAACCCCCNNTGTNACCTTNCCCCGGGGCGGGCCCGTTTTANAAAAAN
ANNGGGANCCCCCGGGCNTGNAAGAAAAATTCNATATNAAGCCTTATTTAANAACCCCNN
NAAACCTNTNAGGGGGGGGGCC

Sequence 4811

CTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAAAGACGAATCA
TGAAAAAGAAAAAAAACTTTATTTCAAACAGGTTCAGTGATATATGTGTGTGCTACAGCA
AAGGCTGGTTGTGGCAAAGTTTCATTTCAAACTGTATGATGTGGGCTGGGCAAGGTGGCT
CACGCCTGTAATCCCAGCACTTTNTGAGGGCCGAGGTGGGCTGATCACCCTGAGGGTCAG
GAGAGACCGGCCTAGCCAACATGCTGAAACCCCGTCTCTACTAATAATACAAAAATTAGC
CAAGTGTGGTGGCGCGCACCTGTAATCTCAGCTACTCGGGAGGCTGAGGCAGGAGAATCG
CTTGAACCCGGGGGGGCAAGTAGGTTGCCAGAATCACGCCACTGCACTCCAGCCTGGGGT
GGACAGAGCNCAGGACTCAAAAACCAAAACAAAATAAAAACAAAACAAAA

Sequence 4812

CGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAGGGAAAAAC
CTGTCTTGGGCAGGCTGGGGGGGATTCTTCTGGTGAGTCCCCAGCCCACCCTGAGTAACA
CAACCAGATAACAGTCATTTTACACCCAGGTGCACATGAGCACAGCACACAAACACACAC
ACACACACTNACACACACACACACACACAANTTGGCTTGAGCTCTCTTCCAGGGGAGGGT
CCTGGGTCCAGTCACAGTATGAGGTCCTCTCTCTTCTGAATATCATCCCAGTAGTGGCAG
CAGAGAGTACACTCAGTGATCTAAAACACCACAATATCCAACATACACAAACCTCAGGGA
AGGGTTAAGTAAACACACACAAGGATTGGGAATCATTGGTGCTCTTTGCTCCTTGAATGG
GAATGGTTCCCACAGAAAAAAGCCACAGGGGATTACAGNNACAACCATAANG

Sequence 4813

GTGATGGGGCAGACATGGTGGGTCCTGACGGCCTTGTCTTCACCAAGTGCTCCTAACTCT
CAGCAAACTTGGGGTTCATGACCGTCGTGGTGGCGCTCTTGAAAAGGGGATTATCATTGT
TCCACTGGGACTTGAGCTTNTCCTTCTCAAAGCGCCTGTACCTNNGCCGCTTCTAGAACT
AGTGGGATCCCCCCGGGCTTGCAGGGAAT

Sequence 4814

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATGATAGACACAATGAAATCCACCCCC
AAAGAGGACTACTTCGGATACAATCACAGCAACCCTGGCCTTGGCCCTGCCCTGTCCCTG
CCATGCAACTTCACAACTGAGCTGGCCTAGACCCNTGGGAGGCCTNCAAGTCCCTTAAGC
GGTTTCCAGTTTTGTGGAAAGTCCCCAGGNCAANTTCNCTGTTGTTCCACATTGATCCGA
AACNCCCANNCACGTGGGNNCNAGNTATCAATCAAGTCTTCTTCTTTACAGTNGCTACAC
AACACNGCTCTCNAAGCTCCCAGCTGTTANTNTTCTTGGGCCTTGNGAAACTTATGNAAA
GAACNCTTANGTTGNCTCTCCAAGGAACCTTCAAA

Sequence 4815

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTGTGCAATGACAGTC
ACAATCAATTCCTCAGCGCACCCATCGCCACGGATACGATACATTAGATATTCTGAACTT
GCTCATCTTAGGACTTCACATTGGTGTCAGTGTTTTCTGACAAATCACGTGTATCAGGAA
T

Sequence 4816

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTT
TTTTTTTTTTTTTNAATGAACAAATNTTTATTTATCTTTTATAACAAGTAAGGCAATGTT
GCTTAAAGGAAGACAAACAAACNTAAAAGATTCCGTTGACAATGCATTTTTTCATNTGTT
CGGCNCAATGCTTTTGTCATAANGGNAAATNTGACNANCNAAACTTTTCCAGGACATTTC
ANTNTTCGGNGGCAGNCACTTTANGGGCANAATGACTGGCCGCTTATAGATGAGGCCAAA

Table 1

GCNCCAGGTAGGNGGAAGGTTCTTGTNTCGGTTACGAACCCCGACAGCGCNCCAACAGAC
AACACGAGGCAGTGGGGGGAGNAACATTNCCTGTTTAAATGAGCNCNCTGGGTGCAAGGG
CNTTGCTGAGGCTTGAAAAATGGGCNTTNAGCC

Sequence 4817

ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCTCGGCCTCCCAAAGT
GCTGGGATTACGGGCACAAGCCACTGCACCCAGCCACAAACAGATCGCAGATCCAGGTTT
CTCAAACTGGAGCATCTGCTTAATTTTCCCATAAAATCAGTCTTATTCTTTCTGACAGCT
CTGAGACTCCTCCGGCCACGACTAGGTGCTTGTCCTGGAGGAAACGGTGGAGGACGGCCG
CACAAAAACCAATCTACCTGATGAAAACTCCGTTCCCTTCTCGCCAGAAACATAAAATGC
GATGGAGCTACGACCACCGCTGCCGAGACAAAATGGCGCCGACCCCCGCGTACCTCGGCC
GCTCTAGAACTAGTTGGATCCCCCGGGCTGCAGGGAATTCGATATCAAGCCTTATCCGAT
TACCCGTCCGACCTTCGAGGGGGGGGGCCCCGGGTACCCAAGCTTTTGGTTTCCC

Sequence 4818

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TTGGTGTCTTTTAAACATCCTCATGTTGCAAACCCACGACTTCAAATGGCCTCTCCAGAG
GAGAAGTGTCAACAAGTCTTGGAACCCCCTTATGATGAAATGTTTTGCAGCTCATTTNAN
GGTGNACTTAATNCAGTTGGGGGAATCATGACTTCATTAGAAGGGCATTACAATGTTGCC
NAGACCCGTNAATAAGTTCCCAAATCAATTTCTTTTGCCGAAGCCATTTTCCCAGGGCCC
CANCNAAAAGGAAAGAAAAAACCTGGGGGGCCTTCTGCCCCTGTTCCATTGTTATTTGCC
ANGTTANGCCGGCCTTTTGGANCCCTTTCCNAAGGTGGTTTTGGCCCAAATTAAATTGGC
CNANNATTCCAAACCANGTTTTGGGGTTAAAAAAGNAAANAGGGGGAAAAAAAAAGGCNA
AAAAGGTTTGGGGGGGGAACNATTGGTTTTGGGAAAAAAAAAAGGCCAANGCCCAGTAAA
NGTTTTACCTTTGGATTTGAAAGNCTTTGTTTTTTCCC

Sequence 4819

AACGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTGAGA
GGGTCTGCGTTTCTTCTAGAGCTCCTACCTCAGTGGTGTGCACAGAGTTGGAGACACCTG
AGGGCTGGTCCACGTCTCACCTTTGCCATACGGGTCATTTCTTGATCAAATATATGACTG
GGGTCCTGGTTTACTCCCGCCCACCGTTTCTTTTAAAAGTNTTTCTTAACATTGAAATCC
ACAAAAGCNGGAAACAATGAACCATTCTTGCACTTTACAGAAATCATTGTCCTTAGCTTT
AGAGGTTGTTAATTTCTTGTTTTTAACATGAACAGAATGTGTGGTTNTGAAGGTGTGTNG
GGGGGTCTCAAGAAAATTGTCCCTTTT

Sequence 4820

CGACTCACTATATNGNGCTCCACCGCGGTGGCGGCCCGAGGTACCTGCCCACAGCCTTGG
TCCCTGGGGGCTAGACTGCTCAACTGTGGAGCAATTCATTATACTGAAAATGTGCTTGTT
GTTGAAAATTTGTCTGCATGTTAATGCCTCACCCCCAAACCCTTTTCTCTCTCACTCTCT
GCTCACTTCAGATTGACTTTCAATAGTTTTTCTAAGACCTTTGAACTGAATGTTCTCTTC
AGCCAAAACTTGGCGACTTCCACAGAAAAGTCTGACCACTGAGAAGAAGGAGAGCAGAGA
TTTAACCCTTTGTAAGGCCCCATTTGGATCCAGGTCTGCTTTCTCATGTGTGAGTCAGGG
AGGAGCTGGAGCCAGAGGAGAAGAAAATGATAGCTTGGCTGTTCTCCTGCTTAGGACACT
GACTGAATAGTTAAACTCTCACTGCCACTACCTTTTCCCACCTTTAAAAGACCTGAATGA
AGTTTTCTGCCAAACTCCGTGAAGCCACAAGCACCTTATGTCCTCCTTCAGTGTTTTGTG
GGCCTG

Sequence 4821

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GCACATCTCAGAGAGATGGAGGCAAGCTGGGTTCCTGATGATTTCCAGCTAATACAGGTC
CTTCCTCCTGCATGCAGGCGCCCCGTAACGCTTTATAACAGACGCCTCTAGACTTCTGTG
GGGGTAAAGTGAAGGACCCAAAGCGACACAAGTAGTGTCTGTTCACACTTCCACTTTCAA
AGCTAACTACTAGCTGTTCAAATATACTCCATACAGCTTTCAGCAAATCAAAGTGTTTAC
CTCTCCCACACCAAGGGAAGAAAAGATGCAGACTGCCTTTAAAGCACCTGTCAGCAAGGC
GAGGGTTTTAAAGATCAGCCTTGAGAATCAAAGCAGCAGCAGAAGTGTCATTACTCCAGT
GCTCTCCCTTCCCGTTCGTGGGTCACACAGAGACAGGCACCATCCCCAGCGCTTTGCA

Sequence 4822

AGGTACATGCTGCTTGAATTTTCATCATCATCCTCCACTCCTTCCACCTCCAAGAAAAAA
AAAGCGTGCAGGAAGTAGCATTTCAGATCCTTCTCCACCACCTCTGCTTCCCTTCTCCCT
TCTTTTCCTCCTTGCAGCATTCCCTTTAGTACCGCGGGGAGGGCATTGAGGCAGCCAGCG
CAGGGGCTTCTGCTGAGGGGGCAGGGCGGAGCTTGAAGGAAATCCGCAGATAAAGTTTTT
TTCTCTTTGAAAGATAGAGATTAATACAACTACTTAAAAAAATATAGTCAATAGGTTACT

Table 1

AAGATATTGCTTAGCCGTTAAGTTTTTAACGTAAATTTTAATAGCTTAAGATTTTAAGAG
AA
Sequence 4823
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ATGTTCTGTCCTTCAGCAGAAGTCATACAAAATAAGGATCCAAAGTGAACTCAAGAAAAA
AAAAAACAAAACAAAATAAACCCCAACCCCTACAGTGGCCCATTCTGCAGATACGGATTC
GCGAAAGGAAAAATCAGAGGGAAGAGGCTAAAATCCCTCAGTCTACCCCGCGTACGCGGG
ACCCACTCCCTCTTAGCCAATATTGTGCCTATTGCCATACTAGTCTTTGCCGCCTGCGAA
GCAGCGGTGGGCCTAGCCCTACTAGTCTCAATCTCCAACACATATGGCCTAGACTACGTA
CCTGCCCG
Sequence 4824
CCGCGGTGGCGGCCGAGGTACATGCAAAATCAACCTTACATCTCAACCAAATTTTGGGAG
ATCAGGGACTCTCTGCAGGGGAGAAGCTCCACAACCTCAGCAAATTATCCTATTGGTTTG
GGCAATTAAAACAGCCCAGGTTGGTATCAAGCAATGAGATTTATCAAAGGTCAGGACCAC
CTTTGTAATGTCCTTCTCTTTTTTATCTTTATTCGCATAGTCTGTTTTGTCAAGAAAGTA
GGAGTGCAACACCTGCTTTTTTCTGTTTTCCATTTGCTTGAAATATTTTTCTCCATTCCT
TTATTTTGAGCCTATGTATGCCACCGCATGTGAGATGGGTTTCTTGAAGACAGCATACTC
CAGTGGGTCTTGGTTCTTTATCCAGCTTGCCCCATGTCTTTCAATGGGAGCATTTAGCCC
ATTTTCCCCGCGGTACCTTGCCCGGGCGGCC
Sequence 4825
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGCAGGTACTCNATTATTNNNT
TTNNCTTTTTGTTTTGGAGGTTGAATGCAGGGTTTTATTGAGTGGTGGAGGTGGTTCTCT
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GGCAAACCTCTCCGACCACCCTCGGCTGAACTCCTCTCGGNGTTCAAATGTTCCTCTTCT
CTCTTTCTCTGCTGTATCGTTTCACCATTCATCTGCTTGTCTGGGATGGTGAAGACAACT
GTTTGCTCATTTGCTTGGCGATAGGTGATTGTCTCGCCGCTCAGCTATAGGCGATGGTCT
CACCACTCGGTGATAGGCNATTGTCCCATCTAGGTCGCCAAAATGTGTCTGGAATTGGTG
GG
Sequence 4826
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGTCCTCTTAATCATGGGCCTCAGTTC
CCGAAAACCAACAAAATAGAACCGCGGTCCTATTCCATTATTCCTAGCTGCGGTATCCAG
GCGGCTCGGGCCTGCTTTGAACACTCTAATTTTTTCAAAGTAAACGCTTCGGGCCCCGCG
GGACACTCCCGCGTACCT
Sequence 4827
ACTCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTTGGAATCCATG
GCAGTTTTATGGAGGCCAAATATATCAGATGAATAGGCTAATTTCCCTGAGTTGCTGGCC
TTATTAGTCCCTACTCTGTTGCCCCCTGGTTACCTAATGCATGTTCAAAAGGTATAGTTT
TCATCACCTGCTTGATCTTGATTTTCAGACAGCATCAAATCAGTTGCAAAACAAATCCAA
GCTAAAATTTTGAGTGTATGATTAATTTACTATAGCATGTAATTATGCAGTATTTTATTT
TTTGTTTTTTATTTTTTTTGAGACAAGGGGTCTCGCTCCATTGCCCAGGCAGAGGTTGCA
GTGAGCTGAGATCACACCACTTGCACTCCAGCCTGGGTTGACCAGAAGCGAGGACCCCTT
GTTTCAAAAAAAATAAGAAATTAAAAAGTTGAGTCTTCATATTCAAATTTAGTA
Sequence 4828
CCGGGCAGGTACAATACTGAGGCAGCATACTCTGGTCCAGCCCTTCTATTTGTTTCAGCT
TCTCACATACTGCATCCACATTCAGTGAATTCAGTAATACCACTGGGCCTGGGGCTGGGC
CTGACCCTAGGCCATTGTTCTGATCTCTGGGCAAACTCGTTTTTACTGATGGACGTTGAA
GATGAAGATGTTGGGAGCCGCCAGGGTAATACCTTGGCGTGTAAAGGTATAGGGCAAAGA
ATGGCCTGTTGTAGAAGGGATGCTGAGGGCCCGTCATGCCGCTGTAATAGCTGCTGTGAG
GCTGTGGTGACACCACTCCACCTGCGAAGGGCCCATTGAAGGACGTGGAAGAGCACACGG
ATGGGGGCTGGCTGTTACCTCGGC
Sequence 4829
TACGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGGGACGGG
GAATCAGGGTTCGATTCCGGAGAGGGAGCCTGAGAAACGGCTACCACATCCAAGGAAGGC
AGCAGGCGCGCAAATTACCCACTCCCGACCCGGGGAGGTAGTGACGAAAAAAAAAAAAAA
AAAAAAGTNCCTGCCCG
Sequence 4830
CCGCGGTGGCGGCCGCCCGGGCAGGTACAAGCCTTGAACATCGTCCTGCTTCCCAGTGGG

Table 1

TTCAGACCTCACCTTTCAGGGAGCGACCTGGGCAAAGACAGAGAAGCTCCCAGAAGGAGA
GATTGATCCGTGTCTGTTTGTAGGACGGAGAAACCGCTTGGGTAACTTGTTCAAGATATG
ATGCATGTTGCTTTCTAAGAAAGCCCTGTATTTTGTGATTGCCTTTTTTTTTTTAAGATG
CTTTCATTTTGCCAAAATAAAACAGATAATGTGGATGGTTTAAGGGTTATAGTATTATAG
TTTAAATAATAACAACAAAATTCTTCCCAGGAACTCTGCTGGAAGGTAAATTAAAATACT
TGTTTTTCCATTGGTAAAA

Sequence 4831

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTCACTGTTCCAGCTTCC
AGCCCAATCCTAGCAGAATGAATGCATTTTAAAATCAGTCCACATTCACATGTGCTGAGA
AGGTTGTTAGTGGTCCCTCATCTGGGCAAAGCAGACCCAAGATGGTGCTGAGTGCAGAGT
GCAGAGCATTCTTGTGCTCTCCTCTCATGGGTGGGAACTATCTGGGCTTTGCGCCCTGGT
CCAGTGCTACGTATCAACCCCCTCAACACGCCTGTGGCTCTGACACGGGGGGATGAATTA
ACTTGCCTCTGTTCAAATATACAGACTTGGTGAGGCTGTCTTTTGTTAGTACCTGCCCG

Sequence 4832

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGATTCTGT
CTGTGTCATAATTACACATTTACTTGAACACAGCTATCCTTTATCTTGTGCTTTCTTTAA
TAGAAAAATGAACAGAAACTGAATGCAGTTAAATTTTTATTTTTAGTAGGTTGTGAAGTT
ACTTTTACTGGAGAAATAAAAATATGTTAAACTTGATTGACTTTTTAAGATAAATTGTTA
ACACTTTTGCAGGATTAGAATTAATATGAAGTATCTCTTTAACATTATTGTATATATTAC
CTACTGCAAACCTATCTGTTCTGTTTCTTTGTGATTTAAAGAAAAAATAGGCCGGGCATT
GTGGCTCACGCCTATAATCCCAGCANTTTTGGGAGGCCGAGGCGGGCCGGATCACAAGGT
CAGGGAGTTCCGAGACCAAGCCTGACCAAATATGGATGAAACCCC

Sequence 4833

AGGCCGAGGTACGCGGGGGTCGGCGCCATTTTGTCTCGGCAGCGGTGGCCGTAGCTCCAT
CGCATTTTATGTTTCTGGCGAGAAGGGAACGGAGTTTTCATCAGGTAGATTGGTTTTTGT
GCGGCCGCTCTANAACTAGTNGGATC

Sequence 4834

CCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGTTTTACAGTGTGTTGCTGTTGGAA
GCCCTATTCCTCACTACCAGTGGTTCAAAAATGAATTACCATTAACACATGAGACCAAAA
AGCTATACATGGTGCCTTATGTGGATTTGGAACACCAAGGAACCTACTGGTGTCATGTAT
ATAATGATCGAGACAGTCAAGATAGCANNGAAGGTAGAANTCATCATAGGAAGAACAGAT
GAGGCAGTGGAGTGCACTTGAANNATGAATTAAATAATCTTGNTCATTGCTTGNTAATAC
AAGGAGCNAACAACTGGACCAAATNTTTNGCNAAAAGAANAACGTGTGCCCTTTTTGATA
GGAAAATATTGAATTTACCGGGGAGGCACCCCA

Sequence 4835

GTGGTAACAACGCAGACTACGCGGGCAGCTAGAGCAGTGATCCATCATGGAGTTATTCGA
ATTTATACAAGCCCTGGCCGGCTGCAGTGGCACACACCTGTAACCCCACCACTTTGGGAG
GCCAAGGCAGGCAGATCACTTGAGTTCAGGAGTTTGAGACCAGCCTGGCCAACATGGGTG
AAACCCCATCTCTACTAAAAAATACAAAAATTAAGCTTGGGGCCAAGGTGGCANGTGCCT
GCAATNCCCAGCTNCTTCNGGGGAAGGCTTGANGCAGGGAGAAATCACTTTGAACCTGGG
GTAGGGCNGGATTGTTGCNANTNGAAGCCCAAAGNATTTGCACCCCACTTACCANTTNCC
ANGCCCTTGGGGNTAACCANGAAGCCAAAGGACTTCTTGTNCTTCAAAAAAAAAAAAGGG
GGAT

Sequence 4836

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGGGAGTTTTTG
ATTTAAGTTGCAGTTATAGCCAATTTAGGCTAATGCTTGGTTTTGGAGCTTTTATACACA
ACGTTTTTGTTAGGCATCACAGTTTTGCAACCTCTGCTCCAAAGAGAAAAATAGAATGAG
TTTTCTTTCTTTTTTTTTTTGGAGTCAGAGTCTCGCTCTCTTGTCCAGGCTGGAGTGCAAT
AGCGCGATCTGGGCTCACTGCAACCTCCGCCTCCCTGGTTCAAGCAATTCTCCTGCCTTG
CCTCCTGAGTAGCTGGGATTACAGGCGTGTGTCACCACGCTCGGCTAATTTTTGTATTTT
TAGTAGAGACAGGGTTTCACCATGTCAAGCTGGTCTTGGACTCCTGACGTCGTGATCCAC
CCGCCTTGGCCTCCCAAAGTACCTGCCCGGGGCCG

Sequence 4837

CCGGGCAGGTACCTGCAGTCAGATGATGAGATGGAGCTGGAGGAGACAGAACCGCCCCTG
GAGCCTGAGGATGCCCTATCTGACGCCGAGTTTGAGGGGGAGGGTGACTACGAGGAGGGC
ATGTATGCTGACTGGTGGCAAGGAGCNCGGAATTGCCAAGNGGTGACGAGGCCGAGGCTT
GAGCCANAGCCCTTGAACTTNGTCATTGAGTAATGGNGTGACTACCNCCTACNACCCCTC

Table 1

AAAGTCTTGGGTAAGCNCTGGGTGCNCGATGGGCTCCCACNCCTTCACNCAAGTCCTGGG
GGCAAGGCAANACAAAGGAAACTTAATTTTAATTTANAAAAAACCTTAAAGNNATGGGGG
CCCCAAGAGGTGTCCGGNTGNGCCTTCACAACTCTNGTTANAATTCNCNCAGTCCATTTT
TTTGGTGGGANGNGNCCCANNGGGGTGGGGGTTG

Sequence 4838

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNGGAATGAACAAATATTTATTTATCTTTT
ATAACAAGTAAGGCAATGTTNCTTAAAGGNCAGGACATAACAAACNATANAGAAGNATTT
CGCGTNTNACAAATGNCATTTCTTTCATTCTGGTTCGCGCACCAANTGCCTNTTTTGTTC

Sequence 4839

GGAGCTCCCCGCGGTGGCGGCCGAGGTACACAATTAATTTATTTGTAAATACTAAATGTT
TCCTTTTTTCATTACTCATATATTTTTTTCTTGCCTTACTACACTGCCTAGTAAAATATA
TAAAATATGTGCTTCACGGAAAGGGGACTTTGATTAAGGACATGCCTCCTTCAGAGCTTT
TTCTTTTCCCCCTAGTATTTCCAACTTGGGGATGTTTGGCATCGACGAATTTACTGCAGT
GATTAACCCTCCTCAGGCCTGCATTTTGGCGGTTGGGAGGTTCCGACCTGTGCTGAAGCT
CACTGAGGATGAAGAGGGAAATGCCAAACTGCAGCAGCGCCAGCTCATAACAGTCACAAT
GTCAAGTGACAGTCGAGTGGTTGATGACGAACTGGCAACCAGGTTTCTTAAAAGTTTTAA
A

Sequence 4840

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATGTGTCGCGAACTC
AAATCGGCATTTAGATAGATCCAGTGGTTTAAACGGCACGTTTTTGCTTATAAAAAAAGT
GCAAAAAAGATGTGGTTTACAAGTTAAAGCTACAGAATCCCTTTTTGCTGTAATTGCACC
AGTTTTAAAGCCTCTGGACAGAGCAGTATTTCGTTTAAAACTTTGTTTTTCTTAAAAGCT
TACAGTGTTTGGCTAATTCTCCTCCCCTTTTTACAAGACGGGGGCCGGAGGGTGGACACT
GGTGGCAGGTTAAGGGATACTGTCACTTTAAGAAGCCTGCAGATTGAAGTGTAAACATGG
AGAAATTAGGGGCTGATTTTTTAAACTGTGTNAGATATTAACCAGCCGCCCTGTTATAAA
ATCAGGAAAATCCAAACAGCGAT

Sequence 4841

CCGGGCAGGTACCTAACAAACCCACAGGTCCTAAACTACCAAACCTGCATTAAAAATTTC
GGTTGGGGCGACCTCGGAGCAGAACCCAACCTCCGAGCAGTACGGCCATCTTCCAGCTGC
TTGCCTGCAAAGATGAGCCTCTGCTGGTCGGGGGGAATGCCTTCCTTATCCTGGATCTTG
GCCTTCACATTTTCGATGGTGTCACTGGGCTCCACTTCCAGGGTGATGGTCTTGCCGGTC
AGGGTCTTCACGAAGATCTGCATACCACCTCTCAGACGCAGGACCAGGTGCAGGGTCGAC
TCCTTCTNGGATGTTGTAGTCAGAAAGAGTACCCTN

Sequence 4842

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTT
TGTTTGTTTGTTTTTTTGTTTTTGAGACAAGGTCTCACTCCGTTGCTCAGGCTAGAATGA
AGTGGAGCAATCACGGCTCACTGCACCTCAGTCTCCTGGGCTCAAGCAATCCTCCCGTGT
AAGCTGGGCCTACAGGCATGCACCACTAATTTGTTTGACTTTTAGTAAAGACAGGGTTTC
ACCACATTGTGCAGGTTGGTCTCAAAACTCCTGAGCTCAAGTGACCCACCTGCCTAGGCC
TCCCAAAGTGCAGAACCAGATTCTTAACTGCCACAGACTCTTGTATTATGTAATTTATAT
ACAGGAACACAAAGCACTTGATTTGCTTAACTGATGTACAAGCCAAATTTGCGTTCTGGT
TTTGGCCATAAGCTCCTT

Sequence 4843

AAAATGATAGGAAGCTTTTGCCGTTATCTCAAACATGAGCCCCAGCAGGAAGACCATCGC
CACACAGGAGACGATGTCCGCGTGATTCTGCANGACGAATTCGTGGCTCANCACTGGGGG
GCTCTTGGTGCTTTTNTTGCGAATNNNCATNGTGGGGCCGCCGCCCGNGCCTGCAGGTNC
CGCGTACTCANATTGCACCANGCTCTTAAACTGTCCTAGGGATTGGGCCAGGACCAGCAG
ACCTAATTTGACAAAGTCACTGGTCACCTAAANCTTTACTAGGTGGACTTTGATATGACA
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AATTTTCTTTCACCCAAANTTTAA

Sequence 4844

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTAAGAATTTTG
TGGGAACTGACAGAAGAGGTCTTGCTCATGTTTGGGTGGGCATGGGGAAAGAGGCGTCAG
GGAACACTTCATTTCTACTCTGAGACTGAAAAGACAAGTATGAGTTACAGAGATGATGGG
GAGGATATAGACACGTGTTTCAGGTATTTGTAAATGCTGAGGAGAAAGAGGGTGATTCAT
TCAACAATTCAGGCTTAAGTATGAGATAAAGACATAGAAAGAAAATTAATGAGTGCTGAG
GAAATAGGAAGGGACCAGAAAAGTCATNTTCAAATTGCATTTTGA

Table 1

Sequence 4845
GNCAGGTNCTTTCATAATTCAGAAGGGAAAAGTGAAGTCTCACATTATGCCTGCAGAATT
TTCTTCCTGCCCCTTGAACTCTGATGAAGAAGTGAATAAATGGTTGCATTTTTATGAAAT
GAAAGCTCCTTTGGTTTGTCTACCAAGTTTTTGTCTCCAGAGACCCAGGGTTTGGATTTG
CGACTTGGGAGCACACTCATTTTTTTTAGTCGTCATGGGAGAANGGGGGACACCTACCAT
TATGACACTACCTCCAGATATAGTGGGAATAATCTTTGGGATTACTTCTTTACCTGGCAG
AAGTTTTCTTCTTATTCCGCATTTGGATCCAAACCCAAAAAAGAAGAACCNCCATTTCNA
ATTTGGGGCCGANGAATTTAAAATCCAGCTGGAATACCTTTAATTTTAGGNAAAAAAAGG
AAAATTTATTTTAA
Sequence 4846
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATCACGACGCAGGTCTCGTGCCAATCA
AAACGTCAACGCTGTTCACAGCCATTATACACGTGCCCAAGCAAATAGTCCCAGACCAGC
AATGAACTCCCAAGCTGCTGTACACGGGGAAAGATGTCACTGTCTTGCANAACACTGATG
GAAATAACAATGAGGCATGGGCTAAGGATTTGAAGCTGGCAGACTTTGCGCTGCTGTGCC
TCGATGGCAAACGGAAGCCTGTGACTGAGGCTAGAAGCTGCCATCTTGCCATGGCCCCGA
ATCATGCCCGTGGTGTCTCGGATGGATAAGGTGGAACCGCCTGAAACAGGTTGCTGCTTC
CACCAACAGGGCTTAAATTTGGGGGA
Sequence 4847
GCCTCTNCGTTTAATGACCTGGCAGCTTGTTTCTCAGCTGCAGATTTCTTTTGTTAGNGT
TTCTGCCATTGCCAGAGGCATNTCTGNTGAACCTGGCATCTGNTAGTAAACTTTCTCCAA
AACAAAGCTAATTTAGGTTTTGTAGTATATGAAAGCCCTTCTAGCTNTTTCCACTTTTGA
TNTTATTTCATCCCTAAATTGCCATCGTATTGAGGTCATTTTTAACTATTTTTTTCCCAA
TGATTTATTTTTCCTAGTGTATNTTTTTTTNTCTTGGAATTTGACCTAGGGCATGTGTGC
ATGAGTTTTACTCGGGACACTTTCTATTAATACCCCNTAACTTTTCCAANTGTGTTCTGC
CCTCTTCCCATCCTCCCACTTCAACTTNTTGGTCTAAGTTGAATATGAACTTTCCTTTGC
Sequence 4848
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGGGTAAGCAT
TAACAATATTATTCAAAATGTTATATAGAGTTCAACTGTATACAATAGAGCATTTATTAA
AGTGTGTCCAAAGCGCTTATAAATAAAGCATCTTCGAGGCAGGCGGCTCACTTGAGGTTA
GGAGGAAAGCAGACTGGCCAACATGGTGAAACCCCGTCTCCACTGAAAATACAAAAAAAT
TAGCCAGGCGTCATGGCGCACCTGTAGTCCCAGCTACTGGGGAGGCTGAGACACGAGAAT
CGCTTGAACCTGGGAGGTGGAGGTTTGCAGTGAGCCAAGATTGCACCACTGCACTCCAGC
CTGGGTGACAGAGTGGGACTCTGTCTNAAAAAAAGAAAGAAAGAAAGAGAAATNAAGCAT
CTTATGTAGGAAAGTATGGGAGAAATAAAAAAAATGAAAGC
Sequence 4849
CCGCGGTGGCGGCCGCCCGGGCAGGTACATGCTAAGACTTCACCAGTCAAAGCGAACTAC
TATACTCAATTGATCCAATAACTTGACCAACGGAACAAGTTACCCTAGGGATAACAGCGC
AATCCTATTCTAGAGTCCATATCAACAATAGGGTTTATGACCTCCGATGTTGGATCAAGG
ACATCCCGATGGTGCAGCCCGCTATTAAAGGTTCGTTTGTTCAACGATTAAAGTCCTACG
TGATCTGAGTTCAGACCGGAGTAATCCAGGTCGGTTTCTATCTACTTCAAATTCCTCCCT
GTACACGACATCTGACTTGGGAATGCGCAAGCAGTCGAGAGCTTCGTAGAACTCTCCCAG
TTGCTCCTTGGTCGTCTCTGGCTTGTCAGCATAGACAGACAGCCCCCAGTTCTTCTCATC
GTTCACGTCAAAAGCAA
Sequence 4850
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTCGGCG
CCATTTTGTCTCGGCAGCGGTGGCCGTAGCTCCATCGCATTTTATGTTTCTGGCGAGAAG
GGAACGGAGTTTTCATCAGGTAGATTGGTTTTTGT
Sequence 4851
TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGTATGGTTCA
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CTCTACACCTACTGAATCAGAGCATGTATTTTATAAGATCCTTAGGTGATTCACATGCAC
CGTTACATTTTTAATGGGTTTTAATAAATTATACTTGAGAAATAATAAACTGCATATATT
TAAGGTGTCCAGCTTGGCTCAGCCTGGTGGTTCACACCTGTAATTCCAGGATTTTGAGAC
ACTGAGGTGGGAGGATTGCTTGAGTAGCTGAGACTACAGGCGTATGTCACACCAGGCTAA
TTTTTGTATTTTTAGTAGAAGACGGCATTTTGCCCATGTTGGCCA
Sequence 4852
GTTCCATGAGGCTCTAAATGAATTGACTCTGCCCATCANANATCTATGACACTCTCATNT

Table 1

CTTGCAGCACCGCTCCCCGCTCCAGGGCGACAATTCAATCNTTAAACCCCACAACCCACG
GCCGGTCTAGAACTAAGTGGGATC
Sequence 4853
CCGCGGTGGCGGCCGAGGTACACAGTATCAATATGATTTATCACTGTTGATGTTAACCTT
GATCTGGCTTGGTAGTATTTGTCAGGCTTCTCCACTGGGAAGTTATTTGGTTTTGTCCTT
TTCTGTATTGTATTCTTGAAAGAAAGTCACTGTGTGCAGCCCACACTTAAAGTAGGTTGT
ATATTGTGCTCCCCCTCCTTTAGGGTGGAAAATCTATAAATTATTTGGAATTCTTCTGCA
TAGGACATTTGTTTCTTCAGTTTCATTTATTTATTCAGTCATTTATATGAGTGCGTAGTC
ATAAATATTTATTTTATACTTTAACTTAGAATCTAATGGTACATTTTATTACCCTTCAGA
TCTTTGGGAATACTTAAAAATCCTAACCATTAAGCCTTTTCTTTTC
Sequence 4854
AATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGTCTGCCGCGGTGG
CCGGGTGCCGATTTGACAAGATCAAAGCTGCAGGAAAATGGACAGTGAGGTTCAGAGAGA
TGGAAGGATCTTGGATTTGATTGATGATGCTTGGCGAGAAGACAAGCTGCCTTATGAGGA
TTGTCGCAATACCACTTGAATGAGCTTCCTGAACCTGAACAAGACAATGGTGGCACCACA
GAATCTGTCAAAGAACAAGAAATGAAGTGGACAGACTTAGCCTTACAGTACTCGTCTTGG
TGAGAGCGTGAGCTGCTGAGATTTGGGAGCCTGCGCTAGGCCCGCTTGGAGTTCTGAGCC
GATGGAAGAGTTCACTCTTGTTTGCACCCGCGGTGATGCGTGCTTTTCGCAAGAACA
Sequence 4855
GGAGTCACACTATAGGNCNATNNGGNGAATNGNACGCTCACCGCGGTGGCGGCCGCCCGG
GCAGGTACGCGGGGAGGCCTTTCCTTACCTCCCTCCATGCTGTCCACTTCCTCTGTAAAG
CTCTCAACCCTGTCCCCTTCCCCCTCTCTCCTGGGAAAGAGCCCTCCCATGCCTAGCTGC
TGCTCTTAGGGACCCTGTGGCTAGGTGCGCGGATGGAAATCCAGGTATGCCCAACCCCCT
CCCGGTGGAGTAGGGGTTGGGTGGTTATGGAATGACGGAAAGAGGCAAAGGAGTGTATAA
TTGGAGGGTCAGACAAGGCTGGGAGTTGAGGTCCCTCCTACCCCTTACCTGAGCCCTCAG
GTCCTTCNAATGATCTTGAAGTAATNGGCTCCAAGTCTTTTGACCTGGGGGGTCC
Sequence 4856
TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGG
TCAAGCACCTGTCTGCCAGCCAGAAGGCACTGAAGGAGAAGGAGAAGGCCTCCTGGAGCA
GCCTCTCCATGGATGAGAAAGTCGAGTTGTATCGCATTAAGTTCAAGGAGAGCTTTGCTG
AGATGAACANGGGGCTCGAACGAGTGGAAGACGGTTGTGGGCGGTGCCATGTTCTTCATC
GGTTTCACCGCGCTCGTTATCATGTGGCAGAAGCACTATGTGTACGCGGGCTTATGAGCT
GTGACATCGTAAACCATGCACAAGGGCTCTTCCAGGGTTAAACAAAATGCATAACAATCA
AATACAGCAACATCTGCCAAAAGAAAGTAACACCAATAAATTGCAAGTGATTGTTTAACT
ATCTAATGTGGGTATAATCAGC
Sequence 4857
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CAGTTTTACGATTTAAAACTTCGCCAGAATTTCGACAGGGTCTCACTGTATTGCCCAGGT
TGGTCTCGAACTCCTGGCTTCAAGCGATTCTCCCACCTCAGCCTCCCAAAGTGCTGGGAT
TACAGGCGTGAGCCACCACGCCTGGCCTCACTCAAACAGTAAACGAGGTATGTGACGCAT
TCCCAGACTCTTCAGCCAACTGAGCATCAGCTTCTTCACAGCAATTGGGTCCTGATTAAT
GTCCTCCCAAGACAGACTTCATTTGGATCCACGATCAAGAGGACTCTGCCAGGTTTTTCT
GACCCCTCTACATTGCTATTAAAGTGCCAAGGCCTTAAGACTTGGGTA
Sequence 4858
CCGCGGTGGCGGCCGCCCGGGCAGGTACAGGTCTTGCCTAAAATCAAGAAGAGAGCAGGA
GAACTGAGAAACTCCTCCCCTTCCCCCACCAGAAGCCTTGTGTCTAGTAACAGGTAACAA
CAGCCATCTACTGTTGGAGAAAGAACAAAAGCATGGAAAGGATGGAGCAGGGAAAGAGGG
AAAAAACAACAACCACTCTCCAGCACTCCAGGTCTTAACATTAAGCACAAAATAGGAGCA
GCCTAGCCCACCACCGGAGGGATTTCAAGTCTGTTGCACACTGAAAATAACCATGGCTAC
AACAAAACCCAATTCACCACAAATGCTGACTAAATTGACTAATAGCCCCATGCTAATAGC
TTGATGGAAGGATAGATATTCCCACTTTGAACATTTGCTTCAGTGTCTACTTT
Sequence 4859
TCACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGGAAT
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GGAATGGAATCAACGTGAGTGCAGGGGAATGTAATGGAACGGAATGCAATGGAATGGAAT
CATCCGGAATGGAATGGAATGGAATGGAATGGAATGGTATCAACCCGAGTGCAATGGAAT
GGAGTGGAATGGAATGGAATGGAATGGAATGGAATGGAACAACCCGAATGGAATGGAATG

Table 1

TAATGGAGAGTAAGGGAGTTGAATAGAATCAATCCAAACGTAATGGAATGGAATGCAANG
GAATGGAATGGAATGGAATGGAATGGAATGCAATGGAATGGAATCAACCCGAGTGCAATC
NAATGGAATCTAATGGAACGGAACGGAGTGGA

Sequence 4860

CCTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACG
CGGGGGATTTGGCAGCAGCGGAAGAAGGAGACCGGAGGGTGTGTGTTGGGCAAAGCCGGA
GGCAGAGGAGGACGATTGTTTTACGGATCCCGTGATCGGCCCGTCCTTCTCCCCTTTCCC
CCCCTCCCTACCGCCCCTGTCCCGCCGGGGAGCGGCGGCGGCCTTGGACTTTGCTGTCTT
TCCTCGCGGAGACAGATTTCAACACTACACTTGCACAATGTCTTTGAAACCAAGAGTAGT
AGATTTTGATGAAACATGGAACAAACTTTTGACGACAATAAAAGCCGTGGTCATGTTGGA
ATACCGTCGAA

Sequence 4861

TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTT
TTTTTTTTTTTTTTTTTTTGATTAATGAAAACATTCTTGGCAAATGCTTTCGCTCTGGTC
CGTCTTGCGCCGGTCCAAGAATTTCACCTNTAGCGGCGCAATACGAATGCCCC

Sequence 4862

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTATTT
TTTTGAGACAGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGTGCAACCTTGACTCAC
TACAACCTCCTCCTCCTGGGCTCAAGCGATTCTCCTGCTTCAGCTTTCCAAGTATTTGGG
ACCACAGGCGCACACCACAGGCCTGGCTAATGTTTTTGTTTTGTTTTTGGTAGAGACGGG
GTTTCACCATGTTGCCAGGCTGGTCTCGAACTCCTGAGCTCAAGTGATTCACCCACCTTG
GCCTCACAAAGTGTCAGGCTTACAGGCGTGAGCCACTGCGCCCGGCTCACAGGGTAAGGC
TTCTGTCTGGTGTGTTGTATTACGGATTTTGCTTAATAGGCACAGTGAGGCATTAAAAAG
AAAATTCAGTATGCCTGTAGAAAGGATAATCCTTGTTTAAAGTCTCCAA

Sequence 4863

CCGCGGTGGCGGCCGAGGTACGGGTTGCCCCTGGCTTGGCACTGCAGGACGTGTCTCGTT
TTATCTTTCCATTTCAAGTGCTGGGGGCATGTGGCTCGGTCAATTTTGGGACCATCTGTG
GAACCACCATGTGTGATCAGACACCCAACACACCCGANGCACAGTGGTGCAGAAGGAGCG
TNTAATCTTTCCAGGGCAGGGGTGGAGGGAATNAAAGGGNNAGGGNGACCNACTANAANA
GGAACTTCNNAGNTTGGAACGCTACTGGTTCCTGGTGCAAGAAACTCGCCGTCCACCTCG
AGAAGTTGGCACNTGCAAAAANAAGCTGCGTCCGTCGTCACTCTCGGTAGCATTTANCTT
AAAGTTGAGCTTGGCTTGCCCCCGGGGCCCGCGGGCCGCTCTAGAACTAGTTNGATCCCC
CGGGGCTGCAGGAATTTCGATATCAAGCT

Sequence 4864

ACTACTATCGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTT
TTTTTTTTACAAGGTTTTTTCCTAGTGTCCAAAGAGCTGTTCCTCTTTGGACTAACAGTT
AAATTTACAAGGGGATTTANAGGGTTCTGTGGGCAAATTTAAAGTTGAACTAAGATTCTA
CCCGCGTNCTTAAACCAGACAGCAGGGTTCANAGGTGGCACACCGGGACAAANCTGAGGC
CCTGCACCTCAACAGCTGACTGCCAGGTGCCTGNGGGNGAACTGAGGGGAGTATAGGGAG
AGGGCAGGTTG

Sequence 4865

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTCTTTTTTTTTTTTTTTTTTTTTTCCTGA
TTAAATGTTCTTTATTTGATGCTTTTGNGTGCACAACACTATAAGGAGTTGCCCAATTCA
CCAAGTCAGCCCGTTCACACCCTTAGTTAAGGTGGCCATTAAGGGGCCAGGGGGTTGGCA
ATCANNAAANCTGCCTTCCTGCCTAACTTT

Sequence 4866

TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTATCT
GGGGATACCCAAAAAGCAAAGCAGTTCCTGCCTTTTCTTCAGCGGGCAGGTCGTTCTGAA
GCTGTGGNGGAATACGNCTTCAGTGGTTCTCGTCTCANACTCTATTTGCCAAAGGAAACT
TGCCTTATNACCTTTATTGCTTTGCAGGCATTGAATGCCCCAGGAGGAGCCC

Sequence 4867

AATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTGGGAGGCTGAGGCAGGC
AGATTATGAGGTCCAGATTTGAAGACCAGTCTGACCAACATGGTGACAACCCATCTCTAC
TAAAAATACAAAAAAAAAATAGCCAGTCGTGTTGGCAGGCGCCTGTAATCCCAGCTNCTAG
GGAGGCTGAAGCAAAAGAAACACTTGAACCTGGGAAGCAGAGGTTGCAGTGAGCCAAGAT
TGCACCACTGCACTCCAACCTGGGCGACAGAGCAAGACTCCATCTCAAAAAAAAAGAAAA
GAAAAAATGGCACTACATAATGTTTCTAATGCTGNTTTTCTTATATGATTNTCTTGATGG

Table 1

ATTTGCTTCACAAACTTAGGAGCTAACATCTTTGGAATGGCTAGTCTCCTATAGAANAAC
TTCTTTTACTTTGCTTTTCATACATTTTTATA
Sequence 4868
ACCGCGGTGGCGGCCGAGGTACAGGTTCAATCAGCTGTTTTTTTGATNTCAAGAGTTACA
CTTCTTCGAAACCTCTGCACANAGNTCTTCCTCAGNANCACCACACTGCNATGTNAATAA
CTTTTCTAGCAGCCGAATGAACTGCATATAATCTAGAATCTGACAGATTTTTCNCACTTA
ACATNTNNTTTTCTATGGTTTCCCTNC
Sequence 4869
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAACTGAGGC
TCAGAGAGGTTAAGGCACTAGACCAAGATCACACAGCTGTTTAGTGCAGAGCCAACACTC
AACCCAGGTCTCTGCTCCCTCATTCTCTTCCCATTTCTTGACACCAAGAATACGAAAGAG
GTTTTCTACTTCCCTCTTCCCTACCCAAACAGGATTTTCTTTTCACTGGTCCATCCACGC
ACAACCTAGTCAGTTCCGAACAGGAAAAGGAACAATTTATCAAGTTAATTGTCACAATCC
CAGGTGTGGTGCAGTGGGCTGGGGTAAAACATTTTGCTGTATCTTTCATGATGTTCCTGA
TTTCTCTCTTTTTTTTTTCTTTTT
Sequence 4870
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGACACACC
AGGATTCGAGGGCCACACCGCCTCAGCCAGCCCCGGCAAGGGCCTATCAGGGGTGGGTCG
GGGCATCCGAGCGGGTTTGACGGAAGGAGCGGCGGCGACGGAGGAGGAGGATGGAGGCGG
TGGTGTTCGTCTTCTCTCTCCTCGATTGTTGCGCGCTCATCTTCCTCTCGGTCTACTTCA
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TAAACAAGTGGGTAATTCCAGAATTGATTGGCCATACCATTGTCACTGTATTACTGCTCA
TGTCATTGCACTGGTTCATCTTCCTTCTCAACTTACCTGTTGCCACT
Sequence 4871
TCATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGCCTCACAGTG
CAGGGCGGTATGCCGCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTGTGGAGCGCCTCA
CTAACTCCATGATGATGCA
Sequence 4872
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGG
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GGAACCGCCAAACCTCTCCCTTCTTTTTGACTTCACCCTTGGATACCATCAAGGCCAGAG
GATGGAACCAAGATAACATAAAATAGGTGCTCCTTTGTGATAATGGGCTATTTGTATCTC
TGAGGGCTTCCACACAGGATGGCCATTCAAGAAGCTTCTGCTCTGCCTTTCATTACAGTC
TATCTTTAGTCCTCCTAAACCTTCAGCTATAATCTCTATGCAATCAACTTAAATATATGT
TTGTAGTATTGTCCCTTTCTNCCAAATTCCATGTNAAACACTTTNCCTGAATTGAATTGT
TTCCACCAAAAGTTGTTTTTCCCCTGT
Sequence 4873
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGCCTGCAGA
ACTGCCCCACTCACCTCCTCCAACTCCTCTGGGGAAACCCAAGCCCTGCAGCTCATGGAA
CAGAAGAAGTGGAACCGACGTTTCTGGAACAGGACTATCTGAGAGCGGTTCTTCCTGGCC
CTCGGGTTCATGCAACGGCGTAACTGGAACCGACGCTTACGGACCAAGGGAAGTGGAAGA
TGTTTTGTTTGGAGTCCTCGTCGTCCTCCTCCATGTCATTGGCCAGGTAGCTGAGGACAG
GAATCAGGTTGCTGCTCAGGGGCACCACCAGGAGAGACCTCCGGCTGAGGTCAGCTTCCC
AGAGAGGAAGAGTAAAGAGGACAAATAGGTGAAGGAACAAATGAAAGGCTGGGAATCCCA
CTTCCCCCGCTG
Sequence 4874
TCATACTTAGGGCAATTGGAGCTCCCCGCGGGGGCGGCCGCCCGGGCAGGTACACCGACT
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TGCGACTCCTTGACGTTGACAATCGAGTAGTACAGGTAAGCCCTGGCTGCCTCCACCCAC
TCCCAGGGAGACCAAAAGCCTTCATACATCTCAAGTTGGGGGACAAAAAAGGGGGAAGGG
GGGGCACGAAGGCTCATCATTCAAAATAAAACAAAATAAAAAAGTATTAAGGCGAAGATT
AAAAAAATTTTGCATTACATAATTTACACGAAAGCAATGCTATCACCTCCCCTGTGTGGG
ACTTGGGAGGAGGGACTGGGCCATTCTCCTTAGAGAGGAAGTTGGGGGTGGCTTTTAGGA
TGGCAAGGGGACTTCCTGTAACAACCG
Sequence 4875
CCGCGGTGGCGGCCGAGGTACCTGTGGCAGCCCTTCTTCAGACACGGCTACTTCTGCTTC
CACGAGGCTGCTGACCAGAAGAGGTTTAGTGCCCTCCTGAGTGACTGCGTCAGGCATCTC

Table 1

AATCATGATTACATGAAGCAGATGACATTTGAAGCCCAAGCCTTTTTAGAAGCTGTGCAA
TTCTTCCGACAGGAGAAGGGTCACTATGGTTCCTGGGAAATGATCACTGGGGATGAAATC
CAGATCCTGAGTAACCTGGTGATGGAGGAGCTCCTGCCCACTCTTCAGACAGACCTGCTG
CCTAAGATGAAGGGGAAGAAGAATGACAGAAAGAGGGACGTGGCTTGGTCTCCTCGAGGA
GGCCTACACCCTGGTTCAAGCATCAAGTTTCAGAAGGATTTAAAGGTGCCTTGAAGGGAG
GG

Sequence 4876

GCTCCCGGGTGGCGGCCGGGGGCATTCGTATTGCGCCGCTAGAGGTGAAATTCTTGGACC
GGCGCAAGACGGACCAGAGCGAAAGCATTTGCCAAGAATGTTTTCATTAATCAAGAACGA
AAGTCGGAGGTTCGAAGACGATCAGATACCCGTCGTAGTTCCGACCATAAACGATGCCGA
CCGGCGATGCTGGCGGCGTTATTCCCATGACCCGCCGGGCAGCTTCCGGGAAACCAAAGT
CTTTGGGTTCCGGGGGGAGTATGGTTGCAAAAAANAAAATAAAAAANNANACNAANGTAC
CT

Sequence 4877

GCTCCCCGCGGTGGCGGCCGAGGTACTGCCTNNTGGTAAGCCACANACCTTTTNATCTTG
TAATATCANAGTCTTGGAATTCTTTATCTTCCCTACTCTATATCTACANNACAGTAGCAC
TGACTTATNAGCATGCAGAGCTTNNTAATTNTATNCTTGGGCCGGATNCAGAAAAGGGGG
TTCCTCATGCTGGGATCNGAACAACCCAGCACAGGCATGTCTGGGGAGCAAGGCATGAGC
CTGCATGTGGA

Sequence 4878

CCGGGCAGGTACGCGGGGGAAGAGTGAGGGTTCCAACTTTTCTGCTTATCTGGGAGGTGT
TGGGCGCGGACAGTCGAGATGTCAGANAAAAAGCAGCCGGTAGACTTAGGTCTGTTAGAG
GAAGACGACGAGTTTGAAGAGTTCCCTGCCGAAGACTGGGCTGGCTNAGATGANAGATGA
AGATGCACATGGTCNTGGGAGGATAATTTGNGATGATGACAATTGTNNAGGATGACTTTC
TCTAATCAGTNTACGAGCTGAACTAGAGAAACATGGTTTATAANATGGAGGNCTTCGTAG
CATT

Sequence 4879

AGGTACTTTGCTGGGCACTGTTCTAGAAGCTGGGAAATACAAGTGATCAAAATATAACCT
ACCCCACAACTCCCAAATCCAGCTCGAAAAAACTTTTAGTGTGGAGGATGGGATAGTAAA
GATAATAAGCCAATGAATAAGGAAAACATAGCATTTCAGATCTTTATATTATGATAAAAA
AAAAAGTCCTAAATTGGAACAGGAAACACAGATGGGGTGGCTCAATTACAAGACAGCAGT
TAAAGAAGGCCTCACTGACAAGATGAGTTCCCAGTGTCAGGACCCCAATATCCTTCCTTA
CAAAGAGTGGGGATCCCACCCTAGAAAAGGAATAGCAGTTCAGCCACCCC

Sequence 4880

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTAGGTTT
CCTTCAAGACATCGTCTTTTGAATGAGAACTTTCCTGGGTTTTAGAGGAGGGTGGACATT
GTTTATTGATGCCTCCTGTCCATTACCGATGTTTCTCCTGATTGTTATTCATATGCTCAC
CACCCCTCCATGGAGCATCCATGGCCTGTGACAGANCTCTGGGGACTGATATCCTTCCAC
TGACTTTGGCGCTGGTGAGAGCCCTGGTCATGTGATTCAGCTTGGCCTTAACCCGACCCA
GTTGCACATATTCCTCAGGCCCTTTANAGTTGAANNTCGAGACCTCTCTGAGAACGCTTG
CCAGCCCATGCTCTTCTAAGGCTGGAGCAAACTTCCTCCATCTATTTCCANAACAGAGGG
GACTGCAGGGGTTTGGACTCA

Sequence 4881

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
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AANGGGGTAAAGGGGGNGCTNNAGGGNAAANACGGNCCCTNTTTAAAAAATTTTTAGGGG
AATNAATTNTNGGACAATGGGCATNAAACTGGGGTTTGCTCCNNAAATTTNAAAACATTG
ACCNNANNNTACCCCCGGTCNTNTANCNNGAAAAAGNGGTTTNGTTAAAACCTCCGGGAA
TTTGNATTTNTTTTAAAACCTACCCNNNNACCTGCCCGGGNGGCCGCTTTAAAANATNNT
NGGATCCCCCNGGCTGCAGGAATTTTAANATCAANCTTTTTTTGATNCCNTNNACCTNAA
GGGGGGGGGC

Sequence 4882

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTAGTG
CACTCTTGGCTCACTGTAGCCTCGACCTCCGGGGCTCAAGTGATCCTCCTGCCTTAGCCC
CACAAGTAGTGGGACTATAGGCACACACCACCATGCCCATCTAAGTTTTTGTATTTTATG
TAGAGACAAGGTTTCACCATGTTGCCCAGGCTGATCTTGACCTCCTGAGCTCAAGTGATC
TGCCCACCTCGGACTCCCAAAATGCTGGGATTATAGGCGTAAACCACCATGCCTGGCCTT

Table 1

AAATCAACTTTAGAGTCAACATCTCTTATCACTGGAGCTTCTGGAGAAACTCCATCACGT
GGTGCTCTCTTTCCTGGATGTGTTGTGCCCAAATAGCTTGTTCTCATCAGATGACTTATT
TGCTATGGATATATTATACTTCAAG

Sequence 4883

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCTGAGGGCTAAGTG
CAACAAAGAGAGTGATGGGGTCATCCTTCATACATTCTGAAGACCGCCGCACTCGCATCC
ATCGAGGCACGATTGTCCCTCCACGCTGGAACACAGGGATACTGCTTAGAGTTACAGGCA
GGTACAATTCAGGCAATTTTGTTTTTTCACTTGGGTTCAGATTGCAAATTCATTGCTGTG
AGAAAAGGATGGAGGCAAATTTTAGCAGCAACCTCCACCTGACTGCTTGACTGGAGTGCT
CTGAATTTTAACATTGGACTTCTCAGCACCACCAGCTGTTGCTCCGGGACCCATTCGCTT
TTTAATCTCAGCTGCCATCGTCATGAAAGGACTGTTCTACATTCGTTGCATTTCTTAGCA
CTGGTTTCCAAAAAAACGGGAATTCCAAG

Sequence 4884

GTCCCGGCCGAGGNACTACCTACNTTGAGGTTATGGGTTTTNTCNTTCTCCCTTTTTTTC
ACCTCTTTCTTTCCCAATTCAAAACAGCCAANTGAGCCCTGTTCTGGTATTTTGAATCAT
TAGAGAAAAGAAAGGGAGTGGCTGTTTTGAGTTGTCCTTTCTTTGCAGAAAGGAGAAAAT
GTGANTATGTTTTTTTTTTTTACCAGCCTACTTCTAAGTGTCACTGCCTGGTTTTTCTCT
TTTTCAAGGATTAGAACTAAGAGGACACACCAGCATCGGAGTGTATTAAGCCCCTGAAAC
ACATGGTAGCTAGGGGCTGAACACAGGAACCGTATGACAGCAGCACAAACCCCCAAAGGA
TGTTCCTGCCTTGGGGGGGCCCCTGAGCCCCTTGG

Sequence 4885

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGTCANTGTCAN
GCCCGAAGGCTGAAGGAAAAAGAGCAACAGATCCAGGGAGCATTCACCTGCCCTGTCTCC
AAACAGAGCCACCAAGGAGGAGCAGGGGAGCGA

Sequence 4886

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGTAGCATGCCAGGAAGGAGAGAC
TGGGATGGTTTTTTTATCTGTTGCTTTCTTAAATCAAGGGCCGCCGGGCCGGAGATGGAT
GGAGGGACCGGGGATTTGGGAACTCGAAAACGAGCTGAGAGAAGGGAGCCTGTGGAAATA
GACTGGAGTCTGGGTAGTGTCGTTTCCTAGAGAATGGTCTCGAAGTAACTTCTCGGTAAA
GTCTTCNCGGAATTTCCAGACCACACTTGCCCACTGGGAGGCTTTTAGGACCCGAGACGT
GTGCAGGCTTTTCCAGCCAAAATGAAGTTTAATCCCTT

Sequence 4887

TCCCCGCGGTGGCGGCCGAGGTNCATTGAGAATGAGAAGCTCATCTCAGGAAAGCGCCAG
GAGCTGGTCACCAAGATCGACCACATCCTGGATGCCCTGTAGCCCCTGCCCGCATCCTCC
AGGGGGCCCANGGTGCCTGCACTTTGCTGTGGCAGGCAGATTGGGTGGTANTGGGANGTT
GTTGCATTGGAGGCCAANTNGAAAGCTCGACATCTTGTAAAAGGCCTTCAANGAAGAGAA
AACCAGGCCCTGCGTCANGCATNTGNGAGTTTGCCGTTTGTCCTTAACTTTCTTTTTTTT
ATTNGNTTAAAAAAAANAAAANTCCTAAAAAAACTTTCCANCTAAAAACAAAACANCTTT
GNTGTTTTTGAACAAAAGGGAANTTTTTTCA

Sequence 4888

GCAACATGTAAAATTAAACTTAAGTATATTTTAATTTACCTGGTGTTTCCAAAACCTATT
ATTTCAATTTATAATAAAAAAAATTGAGGTATTTTACATTTTATGTTGCTAAGTCCTTAA
TCTTGTTTTTTCCATTTATAGCACATCTTAATTCTTTGTAGCTACATTTCAAGTATTCAG
TANCCACATATGACTGTTGTTGACTGCATTGGACGGTGCAAGTCTAGAATATAGTAGGGG
CTCAGTAGATGTTTGTTGAATGAATGAAGGAGAGGAAGATGANTNTGGTTGTTNAAGGTT
GATTGTAGAATCGAGGAAGGGTTTTGTTCTCACAAGTTGNGGCAGGAGTATAATTTTTT

Sequence 4889

NGCATCATCATGGNGTTAGGTGAGGCGCTCCACANTGGGGACACTTTNCCTTTGGCNGAA
ANCCGTTTTGGGCGGGCANTACNCGNCCCTGCACTTGTTGAAGGCAAAGTACCTNANGCC
CNGNTCCTAANAAACTTAGTGNNAATCCCCCCGGGTCTTGTCACCGGAAANTTCCTATTA
NTCAAANCCTTTAATCNGAANACCCCGCNCNNAACCCTTTNGAGAGGGGNGGGNGCANCC
CGGGTTATCCNCAAGCCTTTTTTTTGGNATCCCCCCTTTTTATGCTNGAAGGGGGGT

Sequence 4890

AACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGTG
CCCTCTTCTGGCTCTTGAGGCTCTGGAGTCCCAATTGTCTGTGTTAGTCAGTGACCAGGT
TCCAGGGAAAATGATGTCATGTGGTGGTCCAACTTACTGGAACCAAAGAGACAGTACCTC
GGCCGCTCTAGAACTAN

Table 1

Sequence 4891
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCCAGCC
CGGCACTCCAGCCTGGCGACAAGAGTGAGACTCCACCTCAAAAAAAAAAAAGAATCCAAT
ACTGCCCAAGGATAGGTATTTTATAGATGGGCAACTGGCTGAAAGGTTAATTCTCTAGGG
CTAGTAGAACTGGATCCCAACACCAAACTCTTAATTAGACCTAGGCCTCAGCTGCACTGC
CCGAAAAGCATTTGGGCAGNACCCTGAGCAGAATACTGGTCTCAGGCCAAGCCCAATATA
GCCATTAAAGATGACCTACAGTGCTTGTGTACCAGTGAACAAAGGCACGCTTGGCATACA
TCAGGTCAAACTTGTGGTTCCAGGCCGAGCCCAGGCCTCAGCAATGGCTGTGGTGTTGCT
CANCATGCACACAGCT
Sequence 4892
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
GCTAGCTATTTAATCTAGGAAATACAGCTCAGAAAAAAAAATGCAGTCATAAAACCTGTTG
GTATAAAGATAAGCAGTTTATTTAATATCTAATTAAATGTGGTCACCAGAGAAATCACAG
CTTATGAAACTTTATCAGAAAAAGATTAATCCATTTCAGGCTTAACCCAAATGTCATAAG
AGAACTCATGAATTTAGATAGGAATCCACTTATTATCCAAAGACGTTTTCATATCAAGTT
AGGTGAGCCTATATTACTAGCTATATTTATACTTACTTCAATCAAATTTATATACTTTGT
AGCTATCACTGATGTGGGGCACAATTATCGAACCAGAATAAGATAATAGGGAGCCTTTCT
GTCTTTATCAAAAATTTCTAGAATGTTCTA
Sequence 4893
CACACAACATTACTGAGCCCGGGAAGNCNTATAAGTGGTAAAGCCCTGGGGNTGCCCTTA
ATTGAGATGAAGCCTAAACTTCACATTAAATTGCCGTTGCCGCNNCACTGNNCCGCTTTT
TCCAGATCGGGGAAAACGCTGGTCGATGNCCAAGTCATGCNATTTANATGNAATCGTGNC
AAACGNCNCNGGGGGGAAGNAGG
Sequence 4894
CACTATAGGGCCGAATTGGTAGCTCCACTCGCGGTNGGCGGCCCAGGTACAAGCCANNAG
CAACCCCTGGTGCGACTGAAAGGCGGTGCCTACATTAGGGGAGGGCTCGCGTGGAGGTGC
TNAAAAATGGAGAGTAGGGGGACCGTT
Sequence 4895
AGGCGGCCGCCCGGGCAGGTACGCGGGTATTCCATCTGTGGATAGAACCCCTGGCAGTGT
TGTNAGCTCAACCTGGTGNGTTCAGATTCTGTCCTGAGGCTTCTTGNTCTNATTCATTTT
AAGTGCTACTGCCTGCACANTNTNCTACACTGTCAAG
Sequence 4896
CACTATAGGGCGAATTGGTAGCTCCACCGGCGGNTGGCCGNCNGTCCCGGGCAGGGTCCN
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CAANTTCTAAAGAAATTAAAGT
Sequence 4897
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GTCAACTNTGCTTCGAGAGCGTCTCCAACGTGAGCCAGCANCNCNCTGTNNTTNGCGCCC
TTTCGCCGAAGGCCGGNAACCCANCAACCCNGGGTCCCTCTCANNCAGGTANNGGCCGGC
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CGGGTNCAACCTTGGTTTTTCCTATAAAAATNGGGNAAGGCCCGGGAANCAAAAATTGGA
ANTTGGCCCCTTCTTTTTCNTNCCTTGTAANCAATGTAAAANANAANATTTGTTGCCCCG
NGNCTTTATAAAACCTTTA
Sequence 4898
AGGTACGCGGGGCTNATGCCATTTTCAGCCTNAGCACGCCTGCACCCAGGCGCTCATTAA
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CCGATACAAGAAACCTTCCACCTACCCTGGNTGCTTTTGGGCCTTTAATTCTTATTAAAG
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CTCAANTTTAATTGNAACNNAAAAAAANGCCTATTTTGGTNGNCNCNGTATATCCAAGTT
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NCTAATTTTGNCNCCNTTTTAACATTTTGGTATTTAATTAAAA
Sequence 4899
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CTTTCCGCCATCTTTCCGCGCCGGTGAGTAGCACTCTCTGAGAGCTCCAATTTCATCCGT

Table 1

CTGCCATCGGCGCCATCCTGCAATCTAAGCCACAATGGTGCGCATGAATGTCCTGGCAGA
TGCTCTCAAGAGTATCAACAATGCCGAAAAGAGAGGCAAACGCCCAGGTGCTTTATTNAG
GCCGNGCTTCCAAAAGTCATCGTCCGGTTTTCTCACTTGTGATGAATGAAAGCATGGGTT
ACATTGGGCCGAAATTTGAAATCATTGATGACCACAGAGCTGGGAAAATTGTTGGTGAAA
CCTCACAGGCAGGCTAAACAAGTGTGGGGTNGATCAGCCCCAGATTTGACGTGCAAACTC
AAAGACCTGGAAAAATGGCAGAAATAATCTGCTTCCATCCCCGCCAGTTTTGGGTTTCAT
TGTACGCCGGGGCTT

Sequence 4900

ACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGTGCGTTTGTGGCCGTCCGGCCTC
CCTGACATGCAGCCCTCTGGACCCCGAGGTTGGACCCTACTGTGACACACCTACCATGCG
GACACTCTTCAACCTCCTCTGGCTTGCCCTGGCCTGCAGCCCTGTTCACACTACCCTGTC
AAAGTCAGATGCCAAAAAAGCCGCCTCAAAAGACGCTTNTTNNAGAAAAANTAATTTTTC
AGATAAGCCGGTGCCAAGAACCGGGGTTTGGTGGGTGACGGGACCTTAAAAGCTTGAGAA
GTGTGGTTCTTGAGCATCGCAGCTACTTGCTCGGCAAAGGCCCGGGACAGACACTTTGCT
GGGGATGTACCTCGGCCGCTCTAGAACTAGTTGGATCCCCCGGGCTGCAG

Sequence 4901

AATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTATTCTTTGCAGTCTCAGGAATTGTT
GACATGCTCACCTATCTGGTCAGCCACGTTCCCTTGGGGGTGGACAGACTGGTTATGGCT
GTGGCAGTATTCATGGAAGGTTTCCTCTTCTACTACCACGTCCACAACCGGCCTCCGCTG
GACCAGCACATCCACTCACTCCTGNTGGAATGCCCTTGGTNCGGAAGGGGGGNGTTNAGT
ATTCTCCCTAAGAAGGGTGGATCCTTCCCGGGGAACCCACCATTTGGTGCNTNGGAAACT
TTTTCCCGAAACCANGTCTCATCATTTCTTTCANNGGAACCTGGTTCTTGGCANNATTGG
GTTTAGTGCTGTTTCCCACCTTTTGGAACACCCTNNNTTGGGACCAGAAAGGATGATGCC
AACCTCATGTTCATCACCATGTGCTTNTGCTGGCACTACCTGGC

Sequence 4902

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGACCCGCCAGAACCAGTGC
TTCTATAACTCCAGTTACCTGAATGTCCAGCGGGAGAATGGGACCGTCTCCAGATACGAG
GGAGGCCGAGAACATGTTGCTCACCTGCTGTTCCTTAGGGACACCAAGACCTTGATGTTT
GGTTCCTACCTGGACGATGAGAAAAACTGGGGGCCTNNCTTTTNTNTTCTNNCNANGCCC
ATAANACGAACCCAAGGGAGCCAACTTGGGAAGAGTTCCTACGAAAGCTTCTCGAACTGC
TTGTGCATTCCCAGGTCAGANTGTTCATGTACCTGCCCGGGCCGGCCGCT

Sequence 4903

CGAGGTACTNNTTATTTNTTTTTTTTCTCTCTCCCTCCCCCACACCGTAGCGGGCGCNCG
AGCGGGCCGGGCG

Sequence 4904

NACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTT
TTTTTTTTTTTTTTGCCACACAGACTAGGGAATAAGAGAACAAACAGTAATAACTGAGTA
GTGCAAGATTATATTCTTTGAGTCTAAAATAAATTAAATAACTTCCAAAAAAAGTAAGTG
CTTTTGTTTGGAAGGTGATANCATNANGANTATAAACCAAACTGCTTCACTGATATAACT
CCCACCAAATATCTTCATGGGGTAGGTTACTGATTTTTATCTTCCTGAATAAGGAAACAA
AGGTCAGTGACAGATACCAGTAACTGATTATTTTTACAATCTTAAAAAAACCCCAACATA
TTTCATTGGGAACCATAAAAACTCATCATTTTTCTNTTTTATGAATAACTCGTGTTTTTT
ATACAACTTTTANAATGCCCGNCTTTCCTTTTT

Sequence 4905

ACACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGTTGTCCTGGTGGAATG
TGTCCCCCTCGTTCCCCAGCGCCACGATGTGGATGGACCTGCACGGACAGAGGGGGCGAG
GGGAGAAGGGAAGCACGGTCAGCGCGCGGGTCTCTCCTCGGAACANGAAGTGCCCCGNGT
ACCTCGGCCCGTTCTAGAACTAGTTGNATNCCCCCTGGGCTGCANGAAATTCGATTTTCA
ATGCTTAATTCNATACCCGTTCNACCCTCTTAGGGGGGGGGGCCCCGGTTACCCCAAACT
TTT

Sequence 4906

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGAGACTGA
GTTTTGCTCTTGTCACCCAGGCTGGAGTGCAATGGCGTGATCTCAGCTCACTGCAACCTC
CACCTCCCGGGTTCAAGCGATTCTCCTGCCACGGACTCCCGAGCAGNTGGGATTACAGGC
GCCTACCACCACACCCAGCTAATTTTTGTATTTTTAGCANAGATGGGGTTTCACCATGTT
GGCCAGGCTGGTCTCGAACCCCTGACCTCAGGTGATCCACCCGTCTNGGCCTCCCAAAGT
GCTGGGATTATAGGCCGTGAGCCACCATGCCCAGCCAGGAGTAGGNAATATTAAAATGAG

Table 1

GGTTCAGTAAAAAGATTAAGGCTTANCATTTCTNACNTAACTNGGCCACAATCATTTTAG
TGTTTTCTTTTTGGAAATA
Sequence 4907
ATGGCGGCCCGAGGTACTCACAAGCACTCACATATGCCACAGTGCACTTGCTTNTGCTGC
AGTATGAGCCACAGTGTATATCTGTGTGATTATGGAATACACAGGTAATCCACTTCAAAA
AAACAGCATTAAGCTGCCTTNTTTTTTTTATNAAATAGTTGAACTAAGGGCCTGGGTATTN
TTTTGCANNGGANATNAAAAAATANANACNTTAANNATGGAAGGGGGACCCCATTTTTAA
TNGCCAAATNGGANTTATTCNTTTTTTTTTNCAGGTNTCCTTTNGNGTNCCAATTGTTGCN
AACCCNACCTTTTAACCANNGNCAANTGGNCCCCTTGGCNTTTTNCTTTCAAAGNTAAAA
AGTAACCAACCCCCCCTTTTTTTTGGAAGGCCCACCCAATTTTAAAAC
Sequence 4908
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NAGGCCACTTGGGGGNGATTNGCNCTTAAATTTGGAAGNTTGGAAGGNCTTAAAACCTTT
NAANCAAATTTTAAAAATTTTGCCNGTTTANGNCTGGCCNTNNAACCTTGGCCTCCTCGG
GATTTTTTTTCTCCAANTTTACTGTGGNGGAANANAACCACCTTGNGTTNCCGTTGGGCN
CCAANNCCTTTGGNNAAATTTTAAAAATTGGNAAAATTTC
Sequence 4909
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGACTTTATACCAGTCATGTGGCAGAAA
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TGCCTGGTCGCATCATCAACGGCTTGAAGACTGTGGGAGTGAACAACCCAANTGTTCCTA
TTAGATGANGTTGACAAACTTGGGAAAAAGTCTACAGGGTGATCCAGCAGCAGCTCTGCT
TGAGGTGTTGGATCCTGAACAAAACCATAACTTCACAGATCATTATCTAAATGTGGCCTT
TGACCTTTCTCAAGTTCTTTTTATAGCTACTGCCAACACCACTGCTACCATTCCAGCTGC
CTTGTTTGGGACAGGAATGGGAGATCATTTNAAGGTTTCCAGGGTTT
Sequence 4910
CCGGGCAGGACTTTTTTTTTTTTTTTTTTTTTTTTTTGGTAGANATGGGACTTCCTACGT
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TGCTGAGATTACAGATGTGAGCCACCACACCTGGCCAAAATAATAAAATTTTAATCAGTA
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TNTGAAATATAAATAGATCCATTTAAATACGATATCCAGTTGAACCAGCCCTGAAGGGCT
Sequence 4911
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTT
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CTTAAAGGAAGACAAACAAACATAAAAGATTCCGTTGACAATGCATTTTTTCATCTGTTC
GGCACAATGCTTTTGTCATAATGGAGATGTGACAGCAAACTTTC
Sequence 4912
CCGCGGTGGCGGCCGATACCTTACCGTGGCTGCTGTCTTCCGTGGTCGGATGTCCATGAA
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GATCCCCAACAATGTCAAGACAGCCGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGC
AGTCACCTTCATTTGGCAATAGCACAANCCATCCAGGAGCTCTTCAAAGCCGCATCTCGG
AAGCANGTTCACTGCCATGTTCCGCCGGAAGGCCTTCCTCCACTGGTACCTGCCCGGGCC
Sequence 4913
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AGGTGTCTGAGGAGCATCTTCCTGGCTCAGAGACCTTTTGCTCCAGGTGCTCATGCCGCA
AATGGCAATCTGCGCGCGAACTAATTC
Sequence 4914
CCANAGGGCGATTTGGAGNTNNACCGCNGTGGCGGCCGTTGGGAACTCTNTCTCCCCAGC
CTTNGGGCCGGNGCCTTTTTNNGNCTNCGGCGAATGAGACCTGCGGACCTGCCCCCGCGC
CCCATGGAAGAATCCCCGGCGTCCAGCTCTGCCCCGACAGAGACGGAGGAGCCGGGGCCC
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AGGAGAGATGAGGAATGCTCTCCACCTGGTGCTGAGGCGAGGGTTGAGGATTGGGCAAAT
AGGGTACCCTNTGGCNGNTTCTAGAAACT
Sequence 4915
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGTCTAAGGCT

Table 1

CTGGCGGCTCCGCGAATCTCATGTGCTGGGCCATCATGGACGAGAGTGGTCTTCAGCACC
GCTTGTAAAGCAGTGTTAACAACCATCACACCGCCAGCAGCAATGCCCTCCTCAGCCACC
AAGGCAGGCCACAGGTAACGAGTGATGCCCCATTCTTNGACGCACCCAAGCCTCCGGCTT
CCATAACTCAACCAGCAGCAGGGAAAAAAGCATGGGTCTTCAATTCTCTTGACAAATCTC
AAGAGGTATTATACTCTTATTCCAACTACATCTCCCTCCCCAAAGAAGCGCACACAAAAC
AATTTTAAAACTTATGTTTTTCTACGGAAACCTTACCTCAAAGTGATGCACAAAACTGAA
ATTTATTATGGCTGCTTAAATGTCACATCCTGGCTTCCTAGCAGGGAAAC

Sequence 4916

GGGCGAATTGGAGCTCCCCGTGGTGGCGGCCGAGGTACACAGGCANTGATCACTGTGGGC
CTTGGAAAAGACTCANTCCTGNTCTGGCTTGGGATTTCATCCAGAGCAGTCCCAATGGTG

Sequence 4917

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAAGCC
CTCACCCCACAAGGGGCAGGTGGGGGCTTGGTTGCTGACCCGGCCCAAGTCCCCACAGAG
CACCTTCTGTAGCTCCAGCTTGTCTCCCTGGCTTCTCTTTGAAGGAGAAAAATGTAAAAT
ATGCACTGAGAAAGCCAGCCCCGCCTGCTTAGTCANCCCCGGGCAGCAAGGGCCANCCAT
TGGGAAACTCAANGAAAAAGCAANGAACCCTTTTCCAAAAAGCCCCAANAGAATGCCCTN
GGGCTCAGATCTTGTAAATTCTCCCAGGAAGCTGTGATANGAGCAGGCCACACAAAGTCC
CCTACCGCCTTCCCTGCTTGCCCTCCCCCAGATGCATTGTGATNGGCATTCACCCATTTC
CCCAAATTNGAAATATTCAGCATGCCGGGCCTGGACCAGGGGACCTCTTTTAAGATGCAT
TGAAATTTATTTATT

Sequence 4918

CCGCGGTGGCGGCCGAGGTACAATAATATTATCTTTATGAGCAGCATGGAAATTTCATTC
CTGATCTGGAAGAATAAAAGGAAAGAAAATGTCAGGTGAAAGAGTAAGTAGCCTCCAACT
TAAGCAGACAGAATAATTTTCTTTAAAATGAAAAGAACATTTTAAGCTGTCTTCCCCCCT
AAAAGATCAGATCTAGAAAGGGCTGGAAATGAACTGTGCCCAGGAATCTGGGGGTGCTCT
CCAGTAAGGCGAACTGAGGCTCATTTGCAGCCAAGACTTGGAACTCGGGATGAGACCTAA
TGGGCTATTGCTGCCATCTGGCTGCCAAAAAGTCCCTAATAGATGGATTTTCCAGGCTGA
CCCAGCTGTGGGGCGGGGGGGGTCCTCTGGCTTCTGTGTCCTCTGAAGCGTT

Sequence 4919

AGGTACTTNNTTTTTTNTTTTTTTTTTTTTTTCTGATGTTGAGGAGTCAGTTTTATTGCC
ATCTCTGGGAGGGGCTCAAATCCGGCCCAATCTCCTTCAGCTTGGCCACCAGGTCCTNAG
TGGTCTCCACCTTGACGC

Sequence 4920

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGCAAAATAATGGAAGANCCTTTTGAAA
CTTAATTATNTTCAGTTTATNAATTATTACTGCATTATNGGAGCTAGTGCAATCCTGNCA
TANGCCCTTGGGTCAAAATGACCAGGGCACAAATAAAAAAAAAAT

Sequence 4921

AACGTTCTCCACCGCGGNGGCGGCCGAGGTACCATATCCTAAGGCTGCACAGAGCAGGAG
GCCCAGCCTAGGAAACGATTTTTCCCTCCTAGACCTCTGGGCCTGAGANGGGAGGGGTTG
CCATGAAGGTCTCTG

Sequence 4922

CCGGGCAGGTACTACAAGCAGGGATGTGCTGGCCTGTGCAGAGTGGAATCCCATGTGGTG
CCACTGTTGTTACTGTGTAAGAAACAGGGACTGTTCCTTGATGGAGCTGATCATGTATGT
CAACCATGACTGCATTCTGCTGGGGTGGATGAGCAGCAGGATGTAGCAGACGGGGAGATA
CATTCGGAGGGTGGAAGGCTCGAGGCTCCTCTATTGCTTGCTGCTGTGCGTAAGGGAGAT
GGTGATAGTTTTCATCTTGACTAATGGAATTATGTCGAGACAGACGATCCCTTCTTCCTC
TCTGGCGCCTGACAGGAGGACTTCTTCTGTTGCGTGCA

Sequence 4923

CCGGGCAGGTACAGGCTGGGTCCCCGTGGTCGCCAAGCCTCCTGCCTGCTCAATGATGTA
GGCCACGGGATTGCATTCATACAGGAGCCGGAGCTGTGGAGGAACAGAGGCAGGACAAAT
TCACCAAGAGCCTAGCAACATGAAGAGAGATGCCAGGAAGAAGAGAGAAGCCAGGAAACA
AGCCAACCGCACAATCCCCACATCAGAGCAGGAGAAGATGGGGGCCTGCTGGCAGAGCTG
GGGCTTGGCTGTGGTCACTCTGAACCTGCTCTTTGGTGTTTTCATGAGTGGTGGGAAGAA
TAGGGACCATATGGAGCCCACACAGGAAGCTCTAGCAGTAACA

Sequence 4924

CCGGGCAGGTACAAACAGAATAAAAAGTCATTGCTTTTGATGGTCAGCAAACACCCAATT
CTGAGGAGGAGGAGAGGTGATGCCCAGCAGGTGGATTAGGACCCCCAGTGGTTGGCGGGG

Table 1

TGCCTGGCTTTGCGGCCCTCTCCCAGGAGGCAGAGAGCACAGCTTTAGGTAGTGTAAGCC
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TCCCCACTCCCAAGTTGGGCCAGTAAAGATTACATGAAAACTGGCACACCTATTGGCTGG
AATACAGATGCACCAAATGAGGATTTAAAAACTTTCCGAGC
Sequence 4925
CCGCGGTGGCGGCCGAGGTACCTCTGCCACCGAGTTCAAGGGATCCTCCTGCCTCAGCCT
CCCAAGTAGCTGGGATTACAGGCATTGCACCACCACACCTGGCAAATTGTCATAATTTTT
TTGTGAAAGATGGGGTTTCACCATGTTTGGCCAGGCTGCCTAGGTTTTGTTTTTAAGAAG
TAACCTGAAATTTCCTACAACACTGAATAAAAGTGGNACCTGCCCGGGCGGCCGCCTCTA
GAACTAGTGGGATCCCCCGGGC
Sequence 4926
AGCCCAGAACCAGCCCNCGNCGAGCTTTTNCACNACAACGGGGNCACCANCCCCANAANC
CGNGCAGCAGAGNAAGAGAGGCACNANGGGCNGGCAGAAGGCNGGGCACCCANNAANTTT
AAAANAAAATTTTTTNGCAACANGGGGGGGGCCCCCCCAANAAAAAAAGCNNNGGAGAAG
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ACCCANGAGAGGCCACCCGCCANGGCNGGCCAAGCACAGCAGC
Sequence 4927
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AGGGCAAAGAAAGTCTGTACTTGTCTGGATGGGTCCACAGCTCGATCTGCGCCATCACCT
GGTTGGTGAAGCAGTTACTCATCACGAAGCTGGGGTGGCCCATGGCACAACCCAGGTTGA
CCAGCCGACCCTCGGCCAGCAGGATGATGCGGCGCCCATTCTTCAACCGATACCGGTCCA
CCTGCGGCTTGATGTTCACCTTCTCCACGGCGTTCTCGTTGANCCACT
Sequence 4928
ACTATAGNTTNGAAGNGGAACCCCACCGCGGTGGCGGCCGAGGTACCTGAACAANTTCCA
TCAAGGACAGATTCTCAGTCTTGAAGAGGCAGCACGGNAAAGGGGAAAGATCATGAGTTT
NGGGGCCAGGTNCCCTTGGATATTGTGGG
Sequence 4929
GTATACCACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTA
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GGTAGTGTCTATGCTGAAGAGCAGCTTCACTTGTTTCCCCACAGAAAAAGGCCCAAAATT
TTTGGAGGATAATTTAAAAACTAAGCCAATAAGGCCAGGCACGGTGGCTCATGCCTGTAA
TCCCAGCACTTTGGGAGGCCAAGGCGGGCAGATCACCTGAGGTCAGGAGTTCGAGACCAN
CCTGGTTAACATGGCTGAANTCCCGTCTCTAATAAAAATATAAA
Sequence 4930
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTACATGGGTTATAAAT
CCTCTCTCTGGACATCAATGTAGAGTCCATCTTTCAAGCACTTTAATTTTTTTAGCTGCC
AAAGGGTNTGAATTACATTATCTGTATGCTAATTATCCCTGAAATCAATG
Sequence 4931
AGTNTGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGAATCCCGC
AAACACAAGAAGTCAAAGAAATCCCACAAAAAAAAGCAGAAAAAAAGGTCACACAAAAAA
CAGAAGAAAAGCAAAAAAGAAGCCACAGATATAACAGCAGATTCCTCGAGTGAGTTCTCA
GAAGAAACTGGGGCTTCTGGTACACGACNTNTGACTTGGGAATGCGCAAGCAGTCGAGAG
CTTCGTAGAACTCTCCCAGTTGCTCCTTGGTCGTCTCTGGCTTGTCAGCNTANACAGACA
GCCC
Sequence 4932
AGGTACATGTGGGAGAAAAACTTAAGTGTGATGAGTGTGGTAAGGAATTCAGTCAGGGCG
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GTGGGAAAGGTTTCAGTCGTAGATTAGCACTTAATGTTCATTGCAAGGTCCACACGGCAG
AGAAACCTTATAATTGTGAGGAGTGTGGGAGGGCCTTCAGTCAGGCCTCTCATCTTCAGG
ACCATCAGAGACTCCACACTGGGGAGAAGCCATTCAAATGTGATGCATGTGGTAAGAGCT
TCAGTCGGAATTCACATCTTCAATCCCATCAAAGAGTTCATACAGGAGAGAAACCATACA
AATGTGAGGAGTGTGGTAAGGGCTTCATTTGTAGCTCAAATCTTTACATTCATCANAGAG
TCCACACAGGAGAAAAACCCTNTAAATGTGAGGAATTGTGGTAAGGCTTTAGTCGGCCTT
CAAGTCTTNGGGCCCA
Sequence 4933
CCGGGCAGGACAGACATGGCTAATGGACCAGGGCCTCTGTGGTCAGAAGAGAGTCAAGCA

Table 1

AGCAGGCGGCAGATCTGGGACCAGCATGCCCACCACCCAGTCAGGCCGCTCTGTTTCGTG
ATGTTTTGGACACCCAACGTGTCTGAGAAAATCTTGATAGACATCATCGGAGTGGACTTT
GCCTTTGCAGAACTCTGTGTTGTTCCTTTGCGGATCTTCTCCTTCTTCCCAGTTCCAGTC
ACAGTGAGGGCGCATCTCACCGGGTGGCTGACGACACTGAAGAAAACCTTCGTCCTTGCC
CCCAGCTCTGTGCTGCGGATCATCGTCCTCATCGCCAGCCTCGTGGT

Sequence 4934

CCGGGCAGGTACCCCCTTTTCACTCAAAGATGTCCCGGATTGGATAATAAATTACATAGC
TATACCCTGTCCATAGTAGAACCTGACTACCTTTATCTACGGATTTATTTATAGTTTNGT
CACACGGTCGAATAGCTCCTTCTTCTCAGTAATACAAGCTTTTTTGGTTTGAAATATGGA
TCCTCTTCCCAGCATAATAATGTGATTTTTTTTTATTCATTTTATGTTATTTATATTCAC
ATTTTTTACTTAAAGGAAAATGCTGCTATTTGTGATGAAAATTGGCTCGNCTTGAGGAAA
AAATTTCTTAAAGCAAAAGAAAAAAAG

Sequence 4935

CCGCGGTGGCGGCCGCCTCGGCCTCCCAAAGTGCTGGGATTACGGGCACAAGCCACTGCA
CCCAGCCACAAACAGATCGCAGATCCAGGTTTCTTCAAACTGGGAGCATCTGCTTAATTT
TCCCATAAAATCAGTCTTATTCTTTCTGACAGCTCTGAGACTCCTCCGGCCACGACTAGG
TGCTGTCCTGGAGGAAACGGTGGAGGACGGCCGCACAAAAANCCAATCTACCTTGATGAA
AAACTNCGTTCCCTTTCTCGCCAGAAACATAAAATGCGATGGGAGCTACGGGCCACCCGC
TTGCCCGAAGACAAAAATGGCGCCGACCCCCGC

Sequence 4936

GCTCCTTTGACAACAGTAGTCTCTGCTCCGGCGGCGGGGACAAGGCGGTGGTTCTGTGGG
ATGTGGCATCAGGGCAGGTCGNGCGCAAATTCCGGGGCCACGCAGGGGTGAGTGAAAGCC
TGGAGACCCTCATTTGAGTGGAGGGGACCCGTATTAGCGCATAGGTGGTGACACGGCCAC
CCCCATTNCACCGGAAGGATCCCTTCCNCAGATGACGATCCCCCACTCCTGCATGCCATN
NNTAGGCAGCCACCAACCC

Sequence 4937

ATGACATGGCTCAGCTTCGGTTTAAAAAAGGTCAGTGTCTATCTGGAAATTTCTATGTGA
GAGGTGATGGAACCAGAGTTTACTTCTTCACACAAGAGGAACTGGACACGCTTTTCACCA
CTGCTGGACTGGAAAAAGTTCAGAATCTGGTGGACCGCCGACTGCAGGTGAACCGAGGGA
AGCAACTGACAATGTACCTGCCCGGGCGGCCGAGGTACAGAAAAATCACAGTAATCCACT
CCAATGTCTGTAAAGTCCACAAAGGTAGAGGACAAAATCTGGAATGCCTGAGGATTATTT
TTCTTTAGTTTTTGGCACACATTAAACCCATCTACAAT

Sequence 4938

ATGACATGGCTCAGCTTCGGTTTAAAAAAGGTCAGTGTCTATCTGGAAATTTCTATGTGA
GAGGTGATGGAACCAGAGTTTACTTCTTCACACAAGAGGAACTGGACACGCTTTTCACCA
CTGCTGGACTGGAAAAAGTTCAGAATCTGGTGGACCGCCGACTGCAGGTGAACCGAGGGA
AGCAACTGACAATGTACCTGCCCGGGCGGCCGAGGTACAGAAAAATCACAGTAATCCACT
CCAATGTCTGTAAAGTCCACAAAGGTAGAGGACAAAATCTGGAATGCCTGAGGATTATTT
TTCTTTAGTTTTTGGCACACATTAAACCCATCTACAAT

Sequence 4939

CCGGGCAGGTACGCGGGGGCGGAAGTGCGAGGGCCCAGGTGGCTGAAGGGGCCGTTAGGA
ACATCCAAGCGGTGGGGCACAGGCAGATCCCCGACCTGACCTGGACCACCCTTCTCCTCT
TGGCCCGCCCCTTCAACTCGCCTCCGCTTANGTCTTGGATTGGGCCCCGCCCCCTGACCT
GAGCCTGGTCCTTCTTCAGGCACTTGACCCTTGACCTNCCGGTGGCTCCCCCATCTNNTC
AGGCGCGAATGGCTACGGGCGCCGGATGTACCCTCGGCCGGTCTAAAAACTAGTTGGATC
CCCCGGGCCTGCAGGAATTCGATATTCAAGCTTATTCGATACCGTTCGACCTCGAGGG

Sequence 4940

CCGGGCAGGTACGCGGGGGCGGAAGTGCGAGGGCCCAGGTGGCTGAAGGGGCCGTTAGGA
ACATCCAAGCGGTGGGGCACAGGCAGATCCCCGACCTGACCTGGACCACCCTTCTCCTCT
TGGCCCGCCCCTTCAACTCGCCTCCGCTTANGTCTTGGATTGGGCCCCGCCCCCTGACCT
GAGCCTGGTCCTTCTTCAGGCACTTGACCCTTGACCTNCCGGTGGCTCCCCCATCTNNTC
AGGCGCGAATGGCTACGGGCGCCGGATGTACCCTCGGCCGGTCTAAAAACTAGTTGGATC
CCCCGGGCCTGCAGGAATTCGATATTCAAGCTTATTCGATACCGTTCGACCTCGAGGG

Sequence 4941

NGGCCGGGGTTTGGGGNCCGGGGCCCCCCGGGNNATATTTTTTCCTTNCTTTTTTNCCC
CCCTTTTTNCNTTTTTTTTTNNCCCCCNTTTTTTTTTCCCCTTTTTCCCCCCTTAAATTTT
TTGGGAAAAAATTNGGGCCAATTCCGGAAGGGGGGGGCN

Table 1

Sequence 4942
NGGCCGGGGTTTGGGGNCCGGGGCCCCCCGGGNNATATTTTTTTCCTTNCTTTTTTNCCC
CCCTTTTTNCNTTTTTTTTNNCCCCCNTTTTTTTTTCCCCTTTTTCCCCCCTTAAATTTT
TTGGGAAAAAATTNGGGCCAATTCCGGAAGGGGGGGGCN
Sequence 4943
GCTTCCCCACCCGGCGGGTTGGGCCGGGCCCGGCCCCCGGGGCCAGGGTTACCGCCGGGG
TTGGGGGAACCCCCCGCNANGCTTCAAGCTTACAAGCAACAAGAATCAAGCCACCCATTGA
AAGCTTTTTTCAACGGGGNCCTNGGGTTTTTTCTTGGCTTCCCTTTGGGTTCCCTGGGGG
NTGGTTNAAANNNAAANCCCCGAAAAANATTTTTTT
Sequence 4944
GCTTCCCCACCCGGCGGGTTGGGCCGGGCCCGGCCCCCGGGGCCAGGGTTACCGCCGGGG
TTGGGGGAACCCCCCGCNANGCTTCAAGCTTACAAGCAACAAGAATCAAGCCACCCATTGA
AAGCTTTTTTCAACGGGGNCCTNGGGTTTTTTCTTGGCTTCCCTTTGGGTTCCCTGGGGG
NTGGTTNAAANNNAAANCCCCGAAAAANATTTTTTT
Sequence 4945
CGTATCGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTA
CGCGGGTCTGATCGCTAATGACAGGTTTGGGGTTTNCTTGGTTTATCAGCCACCCAATTC
ATGGTTTAAAATACCAAGTATTGTTAGAAATGGGTTCAAATCTAGGGAAGGCATTTTCGN
TTTGCAAAAGAAACCTGTNTTTTTANCAGACTTTTAAAAGATGGATTTTTTTTTTTTTTT
ANAAAAAGNCTTNGTTATTTTTTAAAAAAAACNTTTTGAAAAGGGGGCANNTTNTTGGGG
GGGGGGGGG
Sequence 4946
CGTATCGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTA
CGCGGGTCTGATCGCTAATGACAGGTTTGGGGTTTNCTTGGTTTATCAGCCACCCAATTC
ATGGTTTAAAATACCAAGTATTGTTAGAAATGGGTTCAAATCTAGGGAAGGCATTTTCGN
TTTGCAAAAGAAACCTGTNTTTTTANCAGACTTTTAAAAGATGGATTTTTTTTTTTTTTT
ANAAAAAGNCTTNGTTATTTTTTAAAAAAAACNTTTTGAAAAGGGGGCANNTTNTTGGGG
GGGGGGGGG
Sequence 4947
CCGGGCAGGTACTTAAATCAGAACAGAATGATTTAAGGCTACAGATGGAAGCCCAACGCA
TTTGCCTCTCTCTGGTTTATTCAACTCATGTGGATCAGGTTCGTGAATATATGGAAAATG
AAAAAGATAAAGCTCTTTGCAGTCTTAAAGAAGAGCTTATTTTTGCTCAAGAGGAAAAGA
TCAAGGAACTTCAGAAAATACACCAGTTAGAGCTACAGACTATGAAAACACAAGAAACAG
AGGCCATGGAGGACGAGGAGAGACAGAAGAAGCTGGAGGCCGGCAAAGCCAAGCTTGCCC
AGTTTCGACAAAGAAAAGCTCAGTCGGATGGGCAGAGTCC
Sequence 4948
CCGGGCAGGTACTTAAATCAGAACAGAATGATTTAAGGCTACAGATGGAAGCCCAACGCA
TTTGCCTCTCTCTGGTTTATTCAACTCATGTGGATCAGGTTCGTGAATATATGGAAAATG
AAAAAGATAAAGCTCTTTGCAGTCTTAAAGAAGAGCTTATTTTTGCTCAAGAGGAAAAGA
TCAAGGAACTTCAGAAAATACACCAGTTAGAGCTACAGACTATGAAAACACAAGAAACAG
AGGCCATGGAGGACGAGGAGAGACAGAAGAAGCTGGAGGCCGGCAAAGCCAAGCTTGCCC
AGTTTCGACAAAGAAAAGCTCAGTCGGATGGGCAGAGTCC
Sequence 4949
CGCGGTGGGCGGCCCGAGGTACATCACCCTGCTGAGGGACATCCAGGACAAGGTCACCAC
ACTCTACAAAGGCAGTCAACTACATGACACATTNCGCTTCTGCCTGGTCACCAACTTGAC
CGATGGACTCCGTGTTGGCACTGTCAAGGCATTGTTCTCCTCCAATTTGGACCCCAAGCC
TGGTGGAGCAAGTCTTTCTAGATAAGACCCTGAATGCCTCATTCCATTGGCTGGGCTCCA
CCTACCAAGTTGGTGGACATCCATGTGACAGAAATGGAGTCATCAAGTTTATCAACCAAC
AAGCAGCTCCAACACCCAACACTTGTACCTGAATTTNACCATCACCAACCTACCATATTC
CCAGGACAAAAGCCCAGCCAGGCACCACCAATTACCAAGAGGA
Sequence 4950
CGAGGTACANGGCTNANAANATNGAAGTATCAAAGTCACGTCCTCTGTTTCTAACACTGT
TTGATAGACAGCTNNGTGGAAATCTGTCAAAGAACAATACACCATCCTNTCTTTNTTCTT
NGGCAACTGATCCTTGATAAGAGTCTTGGTGCGCCTGAGAAACCAGCCAGACATCTTTTT
GGCAAGTCTTTGCATGGCCTTNCGGCCAGTGGCTAGTTCTCTCTTTGTTGCCGTGTGTCT
CTGACCATGTTCTACTGGGTCANAAAACTGCTTCTTGAAGTANGNCCCACTCCCTAAAAG
GCCTGGCNCAGCCCAGTNCATAACACACCACAGTTCCTTCATGTTGTTCTGAAAGATGGN

Table 1

TCCAGNNAGGCCAATGCGGACATTNCATTTNAAAGCTTNCATAACTTCTGGTNCTCTAGC
TTTNGGATNCTTGATTCTATGANCCTTCATNCACAATGACAGGCTGACCATTCCAAACTG
TTAAGNTCATCCNGGCATTAAGCGTAAGTGGTTTCATAAAGNTNGCTAGAAGCAATTTCA
CAATTCCCTTTGCTTTTAACACCGAATTNAANTCATNATCCTNTTCTGGGNNGCCATTGA
AAAAANAANTGGACTCTGAAAAAATCCCCAGNTGTCCCAATTCATGCCNTTTTTGCTGGA
AAAA

Sequence 4951

AATACGACTCACTATAGGGGCGAATTGGAGCTCCACCCGCGGTGGCGGCCGGGAAAGGGC
CAGGAAAGGGAGTCAAGCAGGAGCCGTCTGTCCGAACGGAGGCTAGGTAAGAATATTTCA
CCATGAAAATGTTAAAAGACATAAAGGAAGGAGCTAAACCATATGGACCCAACTCTCCTT
ATATGAGAACGTTATTAGATTCCATTGCTCATGGAAATAGACTTATTCCTTATGATTGGG
AAATTTTACCTAAATCTTCCCTTTCACCCTCTCAGTATCTACAGTTTAAAACCTGGTGGA
TTGATGGAGTACCT

Sequence 4952

CGCCCGGGCAGGTACCGGAAGCAGCGAATGGAAGAGATGCGGCAGCAGCTTCACAAGGGG
CCCCAATTCAAGCAGGTTTTTGAGATCTCCAGTGGAGAAGGGTTTTTAGACATGATTGAT
AAAGAACAGAAAAGCATTGTCATCATGGTTCATATTTATGAGGATGGCATTCCAGGGACC
GAAGCCATGAATGGTTGCATGATCTGCCTTGCCGCAGAGTACTGTTTGCATTAATAAATT
AAAGCTCCATAGGGTCTTCTCGTCTTGCTGTGTCATGCCCGCCTCTTCACGGGCAGGTCA
ATTTCACTGGTTAAAAGTAAAGAGACAGCTGAACCCTCGTGGAGCCATTCATACAGGTCC
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Sequence 4953

AGGTACCGGGAACCAAACTCTCATTCCCCAGGGGCCTAAGCCCCCCGTGGCCAGGCCCTT
CTCAAGTCAGGGTTCCTGCACATTCACAGTTACGGGTGGCCCTGGGAGTAACACCTGGCA
CCCAAACAGGTCACCAGAGTCCACACATAGTCCACCTGCCCTCCCTGCGTAAGATCAGCT
CTTCCTCCTCCCGACGAATAGATCAGGGTCAATGATCCCTGCCAAGATGGCGACTGCTCC
AGCCTGCTGGTCCAACCTGTCCAGCCACAGCTGTTGCTCGAAGGCTTGAAGTTCAATGGG
ACCCTCTCCCGCTTTCTACAAACTGGTTCCTTTATTTTTATGTTTATTTATTTGGGACCG
AGGTCTGGCTCTGTCACCCAGGCTGGAGTGCAAGTGGTGCAATCACTGCTCACTGCAGCA
TCCACCTCCCAAGCGTCCACCCATCCTCCTGGCCTCAGCCTCGGAACAAGCTGGGGTACC
TGCCCGGGCGGCCCGCTCTAGAACTA

Sequence 4954

CCGCGGTGGCGGCCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCG
AGGCGGGTGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCCAACACGGTGAAACCCC
GTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCCGCCTGTAGTCCCAG
CTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGCGGAGCTTGCAGTGAG
CCGAGATCGCGCCACTGCACTCCAGCCTGGGCGACAGAGCGAGACTCCGTCTCAAAAAAA
AAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGC

Sequence 4955

GCTCCCCGCGGTGGCGGCCCGAGGTACGCGGGGCTCACTAGAAGGAGCCCCCTGACCCCT
TCTTCCAAAATACTTTTTGTCTTTGTCTTCGTTTCTGCATTCATCCCCCTTCGTTCACTC
CCATAACAACCAACAGCGACAACTGGCACCTAGGACAGGGACCGTGAGTGAAGGTCTGCT
GGAGCAGAGAAACTGACACTGGCAAGAAGAACGAGAATGAGAAACCCTGCGACGAGTCTG
CTGACAGCTGATATAAGTCTGCAAAATCAGCTGGACCACCAAACGGCAATTGAGAGCTGC
ACAACCTGCAATTACCTTTATTCAATTAATGCAAAAACAAAAATGGGGAGATGTTACAGG
CCGAAAGAATGAAGGTCCGTGACCAACTCAAGTATACCACTGAAGGCTATATGAGCAAAC
AGAAAACTGTTCTCATGAAAGCAGGATGTTGGAAAACT

Sequence 4956

CCGCGGTGGCGGCCCGANGTACCACAGGACAATCCCATTAGATGTATCCCCCAAATNGNA
AAAGTTAATTTCCCCAACCTTAAACTGCTGGGCTTAAAATTGAGCTCANGGGAAAGGAAT
CCAAAAGCCTCCCCGCGTACTTNGGNTTTTTGTTGNTTTCTNNTTGGGAAATTGGCATGT
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GTTACAACCAAAATCAGGTNTTGTATGATTACATACATNAGACAGAGCAATGGTGGCACA
NGNTGANCATGACAATGGCTCATATGTTTGACGCAAAAGTAAACAAATTCATGGATGCAT
TCAGGAGGAATGCCTTGCATGGACAAGGGTAAAGTTCAATTTAAAA

Sequence 4957

Table 1

CGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCTGATGCCATTTTCAGCCTCAGCACG
CCTGCACCCAGGCGCTCATTAAAACAGCATGTTGCTCCCCACTGCCTCGTGTTGTCTGTT
GGCGCGCTGTCGGGGTTCGAACCGATACAAGAACCTTCCACCTACCTGGTGCTTTGGCCT
CATCTATAAGCAGCTTTTCCACTGTCCTGAAACAAGATAGAGAATCTGAGCGGCCAGTCA
TCTGCCCTAAGTGCTGCCGCCGAAGACTGAATGTCCTGGAAAGTTTGCTGTCACATCTCC
ATTATGACAAAAGCATTGTGCCGAACAGATGAAAAAATGCATTGTCAACGGAATCTTTTA
TGTTTGTTTGTCTTCCTTTAAGCAACATTGCCTTACTTGTTATAAAAGATAAATAAATAT
TTGTTCATTTCAAAAAAAAAAAAAAAAAAANAAGGTACCT

Sequence 4958

CCGGGCAGGTACGCGGGGGGTATGAAGGAGCTGGCCGTGTTCCGGGAGAAGGTCACTGAG
CAGCACCGGCAGATGGGCAAGGGCGGCAAGCATCACCTTGGCCTGGAGGAGCCCAAGAAG
CTGCGACCACCCCCTGCCAGGACTCCCTGCCAACAGGAACTGGACCAGGTCCTGGAGCGG
ATCTCCACCATGCGCCTTCCCGGATGAGCGGGGCCCTCTGGAGCACCTCTACTCCCTGCA
CATCCCCAACTTGTGACAAAGCATGGCCTGTACTTATTGGCACAAATTCGGGCAGCCTCC
AGGGCTTTAAGAGGGACAGCTTGCTCATATTCATCTGACACCATGTGGCCACAAAGCGGA
AAACTCATCCCAACTTTTTTGCCCTTTTTTTNCCGCCCCAAGGGNTCAAAAAA

Sequence 4959

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTNCTATAATGGTNCCCATCT
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CAGCTTCCTGAAAAGANGTGGCNGGGACAGTGGCTACNGAGACANCTGGTGTCCTGAACG
TGGANAATTNCTTGCTCCTNCAAGGCACCATAAGAGAGAAGATTNCTTTGAAAGCTNGGN
CTCTNNTGGGCTCGAGGNCANTGACNAGCTGNTCCTCTGCATATCACNTTNAGAGGGGGG
CNGTGAAGGTTTTGAA

Sequence 4960

CCGGGCAGGTACTTTATAGCATTTGCCCCACCCCACAGCTTAGGTTTTTCTGTCATCCTC
AGATCCCACAGGCATTGCGAAGAAGCCGCTCCCTATACCCAGGTATAACTCAAAATCCAA
AGGGATAGGGCCAGGATCCCTATTCCTACCCCATCTATTCTCTGTTGGCTCCAAGAGCTA
CCCCAGAGACCTTAAACAGAAACAGTAGCTGAGGCTTCTTCCTAGATACCTGACTAGGGA
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GCACTTGTAACTGCTGCCCCCTCCCTACCTCTACTCCCCAAAATGGAANCATTGGGANAG
GGGAAGGCCCCCATGGGGTCAAGAAGGGCACCGGNAGGTTNTTGCAAATNANTTTTTGTT
TT

Sequence 4961

TTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTCTTTTTTTTTTTT
TTTTTTTTGCTCCAAACAGATTTATTGAATACAGCAAAATTCTATATACAAAGGGACCTG
GACCTGCTGCTTCAAAACATGATNNTTTTTTNCTAATATCTTGATAGTCGGNCCATANAG
CATTANAAANGCAATTTGNCCTCTTAAAATNAAACCANAAAAAGTGCCTAATGCACCATT
AAATTGAATGGGCCNTAACCTACTGGAACTTTTANGTAGTTCTNATAAAGGTAATTTAAC

Sequence 4962

ACCGCGGTGGCGGCCGAGGTACTGATGAACCCGAACAGGAGTTGCTTCTGTTTTAATTCT
ACTACTACTGGNGCATGATTTACAGCTAANCCANAGAGGANTCTGCNATGCCNAGTGGAG
GAAGGA

Sequence 4963

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CACTCGAAGAGTCTTCGTAAGCTGTGCAGCCACAGAAATACTAGCACTAAGAATGCANAC
AGTGCCAGCTCCCCTCCCTGGAACTGTGCCGCCCCGAGAATTCTTAGCAAACCATTGAAG
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GCCATTCCACAGCACTGAGATGATATAAAAGTGGGAAAAATATCTCTTGGGGACATCAAA
GGCTCGGCAGGCGGCGGGGCCGCGACGGCTCCCCACACTTGGTTTTCCCATAAGCCGGAT
CAGGTCCTGGAAGATCGCGCAGCCCGGGAGCAGGCCGGGC

Sequence 4964

GAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGGGCATGACAGGCTGGG
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TCACTCTGGTTGTGCCNNNATTTATACCTCCGCAGTCGGTGATGGCAGACACAGAGAATN
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TACTTCATGGTGGGTGTGAATTCTAGGACCAACACTCCTGTGGAGACGTGGAAAGGTTCC
AAAGGCAAACAGTCCTATACCTACATCATTGAGGAGAACACTACCACGAGCTTNACCTGG

Table 1

GCCTTCCAGAGGACCACTTTTCATGAGGCAAGCAGGGAAGTACCTCGGCCGCTCTAGAAC
TAGTTGGATCCCCCG
Sequence 4965
CCGCGGTGGCGGCCGAGGTACACGAAGGTACGATTTACGAGGTGAGGGGCAATAAGTAAA
TGACTCGCACAGATGGTGTTCATGCTCAATGTTTCTCTTCTGAACAATTTTCAGATTTGG
TGTTAAAGCACCTTCTGGCCAGGCGTGGTGGTTTATGCCTGTAATCCCATCACTTTNAAA
AGGCGGAGTCCGGGTGGGGATTGCTTGAGGCCAGGAGTTCAAGACTACCCTAGGCAACAT
AGTGAGATGCTCGTCTCTATTAAAAAAAAAAAAAAAGAAAAAAAAAGGGGACCCAAGGCC
ATATATCTGTTTCATTCCTAGAAACTCTCCACAGTGTCAGATGAAGACTGCAAATCCAGT
GGTCCTACATTCACAGATAATTCCTAGCCTTTGGTTAGTGAGGGAGAATGGGATGG
Sequence 4966
TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGCTCACTGCCGCCCCGC
CCCCCCCGCGTACGTCCAGGCACCGCCAGCCACTGTCTTCATGCAGGAACCACAGTGCCA
GATCCCCACAGCTCGTCTCTTCATCTTGGTTTTGCCACAGAAAGAGCAAGTGTACCTCGG
CCGCTCTAGAACTA
Sequence 4967
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATGCTTTACTAATAG
AAATACCTCTTTGCTGGGGGAGGGGAGTGCTTCTGAATAGAAATTACCCACTCTGAGTTA
CAGCTTTAGTGGCATATTNNTNGNGATTTAAATTTACAGTAAAAACAAAAACAAAAACNA
AAACCAACCCTTTTCCAATTATTGACAAATCTATTTTTTTTTAAAACCTATCTTAGATAG
ACCATCTCCCTACGATAAGATGGCAGAACAGAATGTCAGGAGGAGAGGTTTGGTCTGAAG
AGGGTTATCTGTCCAGGAGACGCTTTATCCCCAAAGCAATGCGCTTCAGTTTGCTGTGCG
CAGCAGAGCACCTGTTGGGGGGAGAAAAGTAGAGCACCTAGAAAGTCCATGAACAAATTC
CAGCAGCAAAAAAACTTCCTACCC
Sequence 4968
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACGCGGGGAGGCTTGA
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ATAANTGNNGATCAAACNCCTACTCCAACTAGA
Sequence 4969
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TATACCTGGACTACTCTCTTTCAA
Sequence 4970
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TGGAATGTGGTAGTGGCGGTCGTTCTCGGTCAGCAGGGAAGATCTCCGGCCAGTCCCTGA
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CCCTGGAAAACAGGAGTCTAAAAAGACTGGGAATGACCTTTTTAGTCTTC
Sequence 4971
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ACTTTTTTTTTTTTTTTTTTTTTTGAGCAGACACAGACACAGATGTTTATTCCAGGAAGAG
GTNTAAGAAACGAGCTTNTTANAGCATNTTTCACGGGGCAGCCAGTCCTGGGGCTCTCAG
AGCCAGCCCCCTCCCTTCAGCAGCTGAAGCAATAGCGCCCCCATTTTACAGGCGGAGCAT
GGAAGCCAGAGAGGTGGGTGGGGGA
Sequence 4972
AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGNATTTTTAGTANAGACAGGGTTTCA

Table 1

CCATGTTGGCCAGGATGATCTTGATCTNTTGACCTNATGATCCGCCCGTNTTGGCCTCCC
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ATTTNAAANATTCTTTTTAACCCTTTTNNCCCGCCAAAGGGGGGAAAAAAAAAANATTNGG
GNANATTNTNTGCCCCTTAAAATAATAAGNGGTTNGAATTNGAAAAGGCCNNTTTCCNAC
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AANAAGGGGCCAAAAAAAANATTTTTTGGGAANGAACCCTTTTATTAAAAGGCCTTNATN
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AATTGTNAANNAAAAAAANNGGNAAATTNNTTTAAACCAATTTCTTTCTTTTAACCNTNG
NGGNCAATTGGNACCCACCAATTTTTTTGGGNTTAAAA
Sequence 4973
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CCTAGGAAATAACTCGGAACCTGTAACGTCCCACTGGTTTGGACATATTCCTCTCCTGAT
CTGGCCTCATCTGTTCCAGGGAGGTGGGATTGAAACATATGCAGTAATGTCACCTCAAAA
GAGAGTTAAGAACGTCCAGGCACAAAACAGGACTTCACAAGGTAGTAGTAGTTTTCAGAC
CACGCTTTCAGCCTGGAAAGTAAAACAGGATCCAAGCAACTCGAAGAACATCTCAAAACA
TGGACAAAACAATCCAGTGGGAGATTATGAACATGCTGATGATCAAGCTGAAGAAGATGC
TTTGCAAATGGCAGTGGGATATTTTGAAAAAGGTNCCATTAAAGC
Sequence 4974
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TTTGCCACAAAACCTGCAGCTTTTTGGTCCAGGTAAATGACATTTGCTGCCATTTTGATG
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ACAGGTTTATGCTAAAA
Sequence 4975
AGGTACAAGGCCAAGAACAGGGAGACAGGGCAGCTGGTGGCCCTGAAGAAGATCAGACTG
GATTTGGAGATGGAGGGGGTCCCAAGCACTGCCATCAGGGAGATCTCGCTGCTCAAGGAA
CTGAAGCACCCCAACATCGTCCGACTGCTGGACGTGGTGCACAACGAGAGGAAGCTCTAT
CTGGTGTTTGAGTTCCTCAGCCAGGACCTGAAGAAGTACTACTCGATTGTCAACGTCAAG
GAGTCGCAGGTCGCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAGTTGAAAGATTA
GTCCGCCGTAGTCGGTGTACCTGCCCG
Sequence 4976
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CAGGGGTGGAGGGATTAAAGGTCAGGGTGACCGACTCACACAGGACTCGCAGCTGGACGC
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GTCCGTCGTCAACTCTCGGTAGCATTTAGCNTGAAGTTGAGCTGGCTGCCCCGGGGCCGC
GGCCGCTCTANN
Sequence 4977
CGCGGTGGGCGGCCGCCCGGGCAGGTACTTGCCGCCCAGCCACGCCCGCGCGCCAGCCAC
CATGCTAGGTAACAAGCGACTGGGGCTGTCCGGACTGACCCTCGCCCTGTCCCTGCTCGT
GTGCCTGGGTGCGCTGGCCGAGGCGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTTAAA
GGNNTAACAGATGTATTTCAAATACAGCATGTTTTACAGGAGTTCACAAGCTTTTCATNT
NTAAAAAAAAACTTTCAACTACCTGACTGTTCCATTCCACCCCANACAAACCTGACATGA
CTGAACTACTTCATGTGTTACTTTCCCAAAAATAAAGTTAAAAAAAAAAGGAACTCATGA
TAAATGCAGATCTCTAATACAGTNTCTAACACAAAAGAAGCTTTAAAAAGACAGTTTCTT
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Table 1

739/863

TAACATAACATTGGGGTTCTTTTTATACTCAAGATGTTTAACTGTTCAAAATGACAACAA
TTACATCTTTTAAGAGTATAATAAAAATGGGGGGAAAACAGCNAACCCAACTGACAAAAG
GGTAGATGCTAAATAAACCAAAGTTTTTTTTTTTAAGGGGTNGGGAAGAAATNCACAGCT
TGGGGGAAATCTTAAAAATTTAAAAAAAAAAAAAAA
Sequence 4978
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGCAACCTAG
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TTAAACACTCCACATAAAAACATGTGCACCCTCTCCTTCTACATTTAATCATTAGTAGTC
TCTAAAATGGTAAAATAAAACTGAATTTATATTAGCAAATGAAAGTGCAAGTTTGTACGC
GGGGGGTGGCCTTTGGGGCCGAAGTGGGCGTGCGGCTCGCGCTGTTCGCGGCCTTCCTGG
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GGAACCCCTACGTGGAGGCGGAGTATTTCCCCACCAAGCCGATGTTTGTTATTGCATTTC
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GCAGACAA
Sequence 4979
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ACAATCTCCACAGGCCCCGATGGTTGCCACGCACATCCAGGTCCCAGATATGGAGGCACT
TGGCAAGCTGGGTCCAGGTGGTGAAGTCATCATCTTTCTCCATTCGAATAAAGGCCACGT
AGGTGTGGCCCTCTGTGTCTGGCAGGAAAGAGTCTTCACAAGGGTTCTTGCTGTGCTCCA
GAACCTCAGCCTCACTGAGCAGCCTGTAAACTTTCACTTCATCCCGCGTACCT
Sequence 4980
CCGGGCAGGTACTTTTTTTTTTTCTTTTTTTTTTTTTGTGGGTGTCTTTGGGGTTNGGTTG
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TTGA
Sequence 4981
ACGTCGGATGACATGTTACCATGACACAAAACGACAATGACCACGGCACCACACCAAGAA
TCATNTACCTNTATTACAACCAGACATTNGCACTCAAATAAGGAGGTGCTGCCGTATACT
TATCCGTTGCTGGAGGCAGCATGAATGGGAACCANACACAGCTGGAAAGCAATCGGGTAA
CAGANCGCCAACCCTGTACCT
Sequence 4982
NAANAAATCTTTATTAAATGAATGAAAGGAGGAAGGAGNCCTTAACTGTACCTAACCTTC
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CCCCCGCCCCACACACTTTTNACAAAAAGGTCNCCTGCTNTGTGTGACTTGCCCTTTCCC
CGGCCAGTNTGGGGCANAGGGAAATAACCCCCCTNTGCTNTNTGGTCTCAGTTNACTCGN
AACTNAAAGNGGGTCGGTTCAAACCCC
Sequence 4983
CTCCACCGCGGTGGCGGCCGCTGGCCCAGGAGAGAACACGGGGAGGTTTGTTTGTGTGAA
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CAATTGTGTTTTCCGTCACAAGGAGTCTTTTGTAAATGCTTTGTACCCTCNGGCCCGCTC
TANAACTAGTGGATCCCCCCGGGGCTTGCAAGGAATTCCATNATCAAGCTTTATCCGATA
CCCGTCCGNCCTNCGANGGGGGGGCCCCGGTACC
Sequence 4984
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CGCAAGTGTAACCAGTGGAGTGGCTTGAGCGAAGGCAGCGTGACCTGCTCCTCGGCCTCC
ACCACAGAGGACTGCATCGCCCTGGTGCTGAAAGGAGAAGCTGATGCCATGACTTTGTCT
GACTACAATATTCAAAAGGAGTCTACTCTTCATCTTGTGTTGAGACTTCGTGGTGGTGCT
AAGAAAAGGAAGAAGAAGTCTTACACCACTCCCAAGAAGAATAAGCAC
Sequence 4985
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ACCCCGTCCTCTAAATATCGTGGATCTGTTCTTTCTGCTGATTGCTGCTTCTTCACTACA
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Table 1

CTCCTCATCCACTTTATGTTTTTCTTTTCCCTTTTTGGGAGCCAGGTCATTA
Sequence 4986
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GAGTGGCGCCAAGGNCGGATCGCCCGGGTCGTGCTGCAAGATGAGGACATCACCACCAAG
ATTGAGGGTGACTGGAAGNGGCTCAACACACTGA
Sequence 4987
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGAGTC
AACCGGATCGGTGACTGTGGAGGGCGAGCTGAGCCCTGGCCGCCGCCACAATGGGCCGCG
AGTTTGGGAATCTGACGCGGATGCCGCATGTTGATCAGCTACAGCTTGTNACCNGTTCGA
GCAAGCGCCGCCTATNNCGCACTGTCTTCACTAAAGGAATCCCCAATGTTCTTGCGCCCG
CATTCGGGAGTCTTTTCTTTCGCGTGGTGCCCGCANTTTTGTNGTGTTTTTANCTTTATC
CTACACATGGGG
Sequence 4988
ACGACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCG
GGGAAGTGAGGCAGCGGAGGACGACCTTTTTCCGGTTCCGGCCTGGCGAGAGTTTGTGCG
GCGACATGAAACTGCTTACCCACAATCTGCTGAGCTCGCATGTGCGGGGGGTGGGGTCCC
GTGGCTTCCCCCTGCGCCCCCAGGCCACNCGAAGGGTCCCTTTTTTGCCCTTGTGNGAAN
TTNAAACCCCCAANNTTCGTGGCCGCCGTATTGATACCTAAAAGTNGGAGTTGGTCNGCG
TNCCTGGA
Sequence 4989
CACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCGGTACGCGGGCGGCCTC
ATCGCCGTCATCGTGGTGGTCGTGGTGGCCCTCGTCGCCGGCATGGCCGTCCTGGTGATC
ACCAACCGGAGAAAGTCGGGGAAGTACCT
Sequence 4990
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAGNAGTTAGCATTTA
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Sequence 4991
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TTCTCTGCAGCGGGCCCCCTCGTGGTCCTTTCCTAGCAACCTAGGAACCAAGACGGCAGA
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Sequence 4992
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TCTCAGCAACGTTTTTGC
Sequence 4993
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGANACGGANCAGG
TNANAACTCCCGTGCTGATCATTATGTGGGCTNGCGCCTGTNATCCCAGNNCTTTGGGAG
GCCTAGGTGGGCGGATCACGAGGTCANGAGATCGAGACCTTCCTGGCTAACAAGGTGAAA
TCCTGTNTCTACTNAAAATTACCAAAAAAANTTTGNCTTGNAAAATGGGTNGNCGGGCCG
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CCCAGGAGGCNTANNTTGCANTGGGCNGANATCCTGTNACTGTAATCCAGCCTGNGTNAC
ACANCAAGACTCCGTTTTTAAAA
Sequence 4994
GNGGCGGCCGAGGTACGCGGGATGCCAAACTCTAATAAAATGGAGTCGGGGGGCCACATA
GAAGCCCTCACACACACATGCCCGTAACAGGATTTATCACAAGACACGCCTGCATGTAGA

Table 1

CCAGACACAGGGCGTATGGAAAGCACGTNCTCAAGACTGTAGTATTNCAAATGAANTNGA
ANATTNTTTANCTTACCACGGGCCGCTCTAGAAACTAGT
Sequence 4995
CCGCGGTGGCGGCCGCCCGGNCAGGTACGCGGGGAGAAACCCTCATAAAGTAGATGCAGA
GGGCAGTAAGATATAACTCAACTTTGAAAATGTCAGCCGTTATAGTTGAAGAAATCTGAC
CCAAGAGACCTCGCTCCGCTGCAAGATGGAAGGAAGCTTAAGTAAGACATAAATTTTGNA
ATGAACCTTTNGNCACCAACAATCCGCCGCCACCTGTGACTTGCANTCATCATCCATTAC
CACAAAATTAGTTGCAGGATGGCTACTCGNATCCCTCCACACATGATCATCANGTATTTG
CCTCCTGNGNCCCAACCGGCCTGAGTCAAATTCCCACTCTGNCACCCAAGGCTGGAGTGC
AGTGATGTAATCTNGGGCTCACTGNAACCTTCACTTGNCCAGGTTCCAAGTGGATTCTTC
CTGGCCTCAGCCCTNCANNAGTTAGCTGGGGATTACAANGGGTTAACGNACTTCACTTGA
TTAAAAAA
Sequence 4996
CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCATGGTACCGCTTGGCGG
TGCGGCCTGGTGTCGGCTTGCANGTTCTTTCTGTGTTTGTTCTCTGCCCTGCCAAGGCCG
TAGAGCTGGTGCGTGCGGGTAGCGGGGCTCTCCGAGGAGCCGCACGCCGGCGGCACCATG
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CCCGCCTTGCCCTGGGGTGGGCTTGCACCAATCGGCCCGCTCTAGAACTAGTGNGATCCC
CCGGGCTGCAAGGA
Sequence 4997
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CTACTGATTCTTCTAGAAGACAGAGATCTACTGGGGTAGTCCGGGACTGACTGCAAAGAG
CCTCAGGTAAAGCAGAGGCCATTGGCNGCCCTAAAGNTTGGCCAGTCAAAGAGGCTTGCG
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GGGATCAGGGTCTGTAGGAAGAGAGAAATGAAGCTGGGGAGAATCCAGCTCAGGGGAAGG
TGCCAGCANNAAGGCCTGGTTAGTAAAGCCTCCAGGGATGTTTGCCAGTGGGAGCAGTAC
TGTGCNATAGCTTAATGAGCTCCCTGGAAAAAACAAATG
Sequence 4998
TANGGCGAATTGGAGCTCCCCGNGGTGGCGGCCGCCCGGGCAGGACGCGGGGGCTGCTTA
GCNNGGGANAGATGGCAGGNGACGGGCTGGTTGGAGAGTCTGCGGACAGCCCAGAAGACT
GCGCTGCTGCAGGACNGGAGAAGGAAGGTTCACT
Sequence 4999
CGNGGTGGCGGCCGANGTACCTGGCTTTTTAGACTCTACATAGGGAATTCCACCATAATT
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ATTTTNAANAGGTTTGGGGAGGCCCAAGGCAGGCGCATCAGCTGAGGTCAAGAGTTTGAG
ACCAGCCTGGTCAAAATGATGAAACCCCATCTATACTAAAAATACAAAAATTAGCTGGGC
ATGGTGGCACACGCCCGTTATCCCANCTACTCAGGAGGCTGAGGCACTAGAAATCACCCT
GAACCCAGGGAGGGCGGGAGGCTTGCCAGTGAGCTTGAGATCACGCCCACTTGCATTCCA
GGGGGGGAAAA
Sequence 5000
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CCCTGAATTCCAACTGACCTTCTACAGAAAAGTGCTTGACTGCCAAGTGGTCTTCCCAGT
CATTAGTGAGGCTCTTGTAAAATTCNCCANNCCTCCCTCTTNGGGTNAATGGTCATCAGG
GGTTTCCTGGGNCCAAAATAAGGCTTTGGGGNCTTGTTATAGTTCTTCCTGATCAATGTA
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TGAACCCACATCTTGNATCNTGGGCTTTTCTTCATNATCCTNTTATACTTCCTCTTCTTT
CTCACCTTTNTNTTCCNCTGCCTTCATCATCACTAATTTTCC
Sequence 5001
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Table 1

GGGATACCTCATAATGATGCAGGGAAAGACCCCGAGGTTCATGATGGAGTTTCAAAGGCC
CACGTTTCATTTTAGGGA
Sequence 5002
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TGTCTCCACTTCCTTACATGGCTAGACACAGAGCCCGGGAGGGCAAAGGAAAATTGGAGG
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TGATCACCCCTCATNGGTTGACTGCAGCTGCTCCTTTCAAGTGCCCTCATGCCCTCCACT
GTGCTCAGCGGCACGGAAAGAGTGAATACTCAGTTCTTCCTGAGGGAACTGAGGCACAGA
GAAGTGGAGGGCATAGAACTGCCAAGTGGCAGGGCCATGATAGGGAACTAGGCAGCCTGC
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TCTCCTG
Sequence 5003
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TGGCGTGCTGCTTCTTTGGGAACACCCCTGGGTGGCGTTTCATGTAATGGGACACGATGC
CCTTCTTGCTGAACGACTGGAAAGAGCACAAGGAGCACTTTTTCTTCTCCACTGCCCGCC
TGAGTTCCTCGCTCAGCTGAAGGGGAAGTCNTCCTTGGGCCGGGGAATGGGATGATCACT
TTTGTTTGGGGCNTTGTCGCTTGATGGTCCTGGAGGCTGCCAAGCAGTGAGTGTAATACG
CATCAATTGTCGTGGCGCTTCTGGTAGTGGGCTGCCAGACCTTTGCGGATGGGGTTGGTG
TAGGCACACAGGGCACACTTTGAAGAAGGTTTGTTCTTGCCCTTCTGGCTTGGGCTCGGA
CATTTATTGTGCCTTGAT
Sequence 5004
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CCAGTTACCGGAGATCCAGCTGCTTGCGTCCCCGCGTACCTCGGCCGCTCTAGAACTAGN
TGGGATCCCCCGGGCTGCAG
Sequence 5005
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AAACTACTGACTTTTANAAATTTTNCNCACTTTNNCCCACTTCTTGTAATCCCAAGAAAT
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TTGCANTNGTNGTNGGGGGGGGACCAAAAAAGTNTTATTGTGTCATNTGGNAGNGCCATG
GGAAANACTGTNGGGGATCTGCA
Sequence 5006
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
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TGCCCCAAAAACCAAATTA
Sequence 5007
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTT
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CCANACCTCATTTNTGTGGTCTGTTGAATGAATCCTANACAGTTCTGTGAGAAAGCAGCA
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Sequence 5008
ACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACTCCTCGTTTCGAA
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Table 1

TGCTTCTTGGTATCGACATCGTCATNCTTAANAATTTTTNAGCTTGCCCGCTTTGCCCGT
AGGCTTGACTTCAGCTTCCTCATCTTNATCTCCATCCTCTTCCTCACCATNACCTTTCTT
CTTCCTNCTCCTCTTCCTCCCCACCTTCTTCCTCTTCTTCGNCTACCTNATTGTNAGCCT
CCTGCTCCCCATTTTCCTCATTAAGCATTCCCGTTAGCAGGGGGCGTCTCTTCCATTTTC
TGCCTTTTCCACAAACTTCCTTTCTTTCTCCTTTTA

Sequence 5009

GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTTATCAATATAAAATAATC
TTCCTGTTGAATGCTTCATGACTTGAATTCTACTTTGATAAAAACATTGCCATACTGCTT
TTTATCTTGATGAATTCATCTGGCATTGCTTTGCCTTATCATCTCATCTGGAGTTTTTAA
ATGCCATTTGTTTCAANNNGTCTTTTACCACCTTANTAAANTAGACTTTTGCCATTTAAC
AAGGGTAGCTCAAATTCTTTTACTAATTGTTACATCGAAACATTCTTTCATCATATTTCC
TGTGTTTATTTGGTTTTTTCAACTTCCTCTGNTTACTATCTACAGTGATTTNGGAAAGGG
AGATTTCCTTTAAAACAAACAAGCCTTATTGGGAATGGCTTTTATGATTTTTAAAGTAA

Sequence 5010

TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGGGAGAAGGGGCGC
AGGTGGCCGCCATCTTGGATTGCGAACTGGGTCGCTACGCTTCACGCCAGGGGCGGAGTG
GCGGCCCTTCTGTTACCCGCCACACACGTCGCCGCTGGGGACTGGGAAATCAGGGCATCG
GANAGTGCCNCATTNATGGGATGCCATTGGCTTAGTCCANGGGAAAGATAACTATAGAAT
GAAAAGTTATAAAGAATAAAGCCCTAAATCCTCAAGAGATGCCGTNTNACGAAGAGAAGA
ANAAGGAATACAGCTTAGAAAAAAACAAAANANAAAAAAAAAANGTCCCTGCCCGGGCCGG
CCCGCTCTAGAACTAGTGGGATCCCCCGGGCTGCAGGAAATTCGATATCAAGCTTATTCG
ATACCCGTCNACCTNGAGGGGGGGGGCCCCGG

Sequence 5011

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCACTATGC
CTGGCTACTTTTTGTGTTTTTAGTGGAGACGGGGTTTCACCATGTTGGCCCGGCTGGTCT
CGAACTCCTGACTTTCAGTGATCCACCTGCATTGGCCTCCCAGAGTGCTGGGATTACAGG
CATGAGTCACCTTGCCAGGCCTACTTTTGGTTTTTTTATAAGAATGAAGCCAAAGTGTGG
TGGCTAAGGCTACACAGAGACTTGAGAGTCTGAGGTGGGAGGATCACTTGGTGCCAGGGG
TTTGAGAGCAGCCTGGGCAACATAAGCAACACCTCATCTGTAGAAAAAAAGTTTACAAAA
CCTTGGTTTACAAGGTGTGAGCCTCCGTGTCCAGCTCCCAAGTTTTCTAGTCTCTACCTG
CACTGCTTATATTGCTA

Sequence 5012

CGCCCGGGCANGTACGCGGGGCTGCGCGGATCGGCGTCCGCATNGGGCGGCTGCTGAGGG
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CAGTTACTAAAAGTGAGCCTGGCATTTCAGCTGCCTTGAGGTGCAGTGTTGGGGATCCAG
AGCCATGTCGGACCTGCTACTACTGGGCCTGATTGGGGGCCTGACTCTCTTACTGCTGCT
GACGCTGCTGGCCTTTGCCGGGTACCTCGGCCGCTCTAGAACTA

Sequence 5013

TAGGGCGAATTGGNNCTCCACCCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTATNTNTN
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AACTTGTAATGGGAGTCACTGCTTGCAGAGCGGTCTGATTCAACTTGATCNCNACTGCCT
CAGGGTTGTCGGTCANGTAAATCTGTCTGGAGATGTTGTTTATTGCACATATCCACTCTT
CATTTTCCTTTCTGCTCTCANCCTGGAGGATTATTCCCGATTTTCCATTGGGCGTGGTGA
TCTGGAAGCATGTAGCGCCGGTCTTCGCAATCCACGGCCATCACTGANCAGTTGTCCAGG
TCCCGGATCAAAC

Sequence 5014

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATGAACCT
GTGTCTTCAGGCTCCCTTTGTCTCTGAGGTTTGGGCTGTGGAGGTGAGCAGAAGGTGCCT
GTCTTTACTAAACAGCCAGGATGGAGGAATCCTGACAAGAGCTGTGGTGTTCTGAGCCGG
ACCCTTTCTTCCTCTCTGAAAATTGTTGAGGAGGCCTTGCGAGCAGGAGTGGTAAAGAAA
ATGATGAAATTCCTGAAGACAGGAGGTGAGACTGCATCACGTTATGCTATAAAGATACTA
GCTATCTGCACGAATAGTTATCATGAAGCTCGGGAAGAAGTAATAAGACTGGATAAAAAG
TTGAGCGTTATGATGAAGCTGCTCAGCTCGGAGGATGAGGTTCTGGTGGGCAACGCTGCC
CTCTGCCTTGGTAACTGCATGGAGGTGCCCAACGTTGCGTCTTCCCTGCTAAAGACGGAC
CTTTTGTAGGTCTTGTTAAAGCTTGCAGGCAGTGACACACAGAAGACGGCCGCTCTAAAA
CTAGTGG

Sequence 5015

Table 1

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTNTTTTGAGGTGG
AGTTTCACTCTTGTCGCCCAGGCTGGAGTGCAGTAGTATGATCTTGGCTCACTGCAACTT
CTACCTCCAGGGTTCAAGTGATTCTCCTGTCTCAGCCTCCTGAGTAGCTGAGACTACAGG
CACATACCACCACACCCAGCTAATTTTTGTATTTTTAATAGAGACGGGGTTTCACTATGT
TGGCCAGGCTGGTCTCAAATGCCTGACCTTGAGTGATCCACCCGCCTCGGCCTCCCAAAG
AGCTGGGATTACAGGTGTGAGCCACCAGGCCCGGCCTCCTAGATTAATTCTTGACATTTT
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CACACAATTTCTGGGGGCTCACAGACCCTNTTGAAGCCTATCCATAAACCCCCTGGTGAA
GTCCCCCTGCCCGATAGCCTGAGGGAAGACATGTGAGTGGATATATGTGCACTAACAGGG
GCGAAAACAGACCTGGATGCTTNTGCAATCCCAGAAAAGCATGANGNACCATTTTCCAAA
NCTTTGGTTTGTNGGCCTGGGCTNCTCCCCTAATTTTATTTTTTTTGAAAAACTTAACNT
TTTTTTT

Sequence 5016

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGTGGAATTGGGAAGGGATGAAGGAGGCT
GTGCCTCCGGGTTGCACGAAGAGTCCGAGTCATTTCTCAGAAGGTTTTGATAGGTGGGCC
TTAGAGGAGACGCCGCCGAGCACCGCAAGAACTGGAAAACACACCCCTCTCTGTCTGCCT
GGGAGAGCCACGGAAATTGGCACTTCTCTGAAGTGAAGCTGAGGAGAAGGCTGTAAATCT
GCCAAAACAGCCTTGAAGTATTCTTTTGTCATGAGGAAGTGACGGCTGCTGGAGGGAGGT
GAACACCACAAGGGAGAGATGGCATCTGGCCTGGGCCCCGCCTAGCAGCAGCCTCCACCT
CCTAANGCCAGGGCCCCTGTGGGGATGCGCCCACTAGACCACCCATGGAC

Sequence 5017

GCGGTGGCGGCCGCCCGGCCAGGTACNCGGGATCTTTGGTGGCTGTGGTCGGGTGTTTNC
TGGTGCCCCCAGCTGAAGCCAACAAGAGTTCTGAAGATATCCGGTGCAAATGCATCNGTC
CACCTTATAGAAACATCAATGGGCACATTTACAACCAGAATGTATCCCAGAANGACTGNA
AACTGTNTTGCACCNTGGTNGGAAGCCCATNCCAAGTGCCTTGGNCATAGACCTTGGAAG
GCCT

Sequence 5018

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTCAGCT
GGAAATACAGAAAGCACCCACCTTCTGCGTTGATCTCACTGGGAACTGCAGATCAGAGCT
GTTCCTATTCGGCCATCTTGCCAGCCTCCTGGCTGAAGGTTTTTCTACATTTCTTACATT
TATATGTTTTTTATCCAGNTGGGACATCTCTGATTAACAGTAGGGGAATTGCTGATAACT
AAAGGCTTGGCCACATGCACTACATTCTTAAGGTTCTTCTNCAGGTATGACTTCTTTGAT
GACAAATTAAGGATAACTTTCTTCTGAACGCCTTTCCCACATTTCAAAACACTTGATAGG
GGCCTTTGGGCCAAGTGGTGGAAGTCTTTTGGATGCTTGAAGCACAGGGATGGAGCTATC
ACTTAAAAAGCCTTTTCCACATTTC

Sequence 5019

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT
TTTTTTTTTTTTTTTTTTTTGGATGCACCCAACCCACTCTAAAGAATGTCAGTGACTTTA
TACAAAAGAGGAAGCATNTANATTGGCATTGTGAACATAATGCATAGGGGCGCGGCGGGA
GCTCTAGAGCCTAATTGGTTAAAACCGTGGCCTCTGGAAATATGNACTACCTTGNNACTT
TGANTGCCTCCACTCTGCNCATTTATNTAACTGCATGACCCTTTTGAAAAANAACTTTTN
TATCCTTCGGGNCCCTCATTGTTGTAGAAANGGAGGATNATAACTACTTTATCTTCACCG
GGGTTGTTCTAAGTNTTAAAATTGGGATAATACAAGTNAAGTACCTTCGGCCGCTTCTTA
NAACTAGTTGGGATCCCCCGGGC

Sequence 5020

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGCTCCTACTTG
GATAACTGTGGTAATTCTAGAGCTAATACATGCCGACGGGCGCTGACCCCCTTCGCGGGG
GGGATGCGTGCATTTATCAGATCAAAACCAACCCGGTCAGCCCCTCTCCGGCCC

Sequence 5021

TACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTT
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CTGAGGCAGGANAATGGCGTGAACCCAGGAAGCAGAGCTTGCAGTGAGCTGANATCATGC
CACCGCACTCCAGCCTGGGCAATACAAGCGAGACTGCCCATNCACAGATGAAGGGATAAA
GTAACTGTGGNGGACATACACAAAGAGAATAGTCTTCAGCCAGAAAATCAGAATGAAATT
TCATCCTTTGGAGCCATACTGTTGAACCTGGAGGACAGCATGGTAAATGACCTGTTCAAA
CACAGCTTGCAGGGATTGAGGAAACTGCTGTACCTCGGCCCGCNTCTTAAAACTAGTTGG
ATCCCCCGGGGCTTGNAGGGAATTTCGA

Table 1

Sequence 5022
ACGACTACTATAGGGCGAATTGGGAGCTCCACCCGCGGTGGCGGCCCGCCCGGGCAGGTA
CCCGCATTCAAGGGGCAATTTCATCCATGTCTATGCCAAGGACTACTTCCCTTTTCCCTC
CCAAATAATCCCTCCCAACACAAAGAAACAAACAAAAAAGAGCTAGGCAATGGAATGAAA
TGACACCCAGTAGTGCTGTAGGAATTATGAGAATGAATCCAGTCAGTCTAATCCTCGAAC
ACTTCCAAGAACAAAGGGGGGAAGAGTTCTGTGGGGCATTCCACCTTCATGTGCAGGAAG
CGGCTGGCATGGCAGGCTCCTATCATCCGCAGATCTGTCACCTTCATCAGGAGTTTTGGC
CAAAAGTGTGTCACGTGGTGTTTTCGGTAATTGATATAGTGTTCAAAGGCCANCAGGAAA
CTATCTTGGTACCT
Sequence 5023
AGGTACGCGGGTTTTCTTTTCGCCATCTTTTGTCTTTCCGTGGAGCTGTCGCCATGAAGG
TCGAGCTGTGCAGTTTTAGCGGGTACGCGGGTGAAGATCCTCACCGAGCGCGGCTACAGC
TTCACCACCA
Sequence 5024
CGCCACGCTGGTTTTGCATCTTCAGGAGACGCTCGTAGCCCTCGCGCTTCTCCTCGGCCA
GTCCGCGATGATGTGGCTCTGGAAGGCGTGAGCCACTTCATCGCGGTCGAAATAGAAGCC
CAGAGAGAGGTAGGTGTAGGAGGCCTGCAGGTACGCGGGTATATTCAGGTGAATGAGCCC
TGGAAGCGGATTAAAGGCAGTGAGGCTGACAGGCAACGGGCAGGAACAGTGACTGGCTTG
GCAGTGAATATAGCTGCCTTGCTCTCTGTCATGCTTCAGCCTTACATGCCCACGGTTAGT
GCCACAATCCAGGCCCAGCTGCAGCTCCCACCTCCAGCCTGCAGTATCCTGCTGACAAAC
TTNCTGTGTACCT
Sequence 5025
AATTGGATCTCCCCGCGGTGGCGGCCGAGGTACGCGGNGAGTCANTGTCAGCCCGAANGC
TGNAGGAAANATTNCAACAGATCCAGGGAGCATTCACCTGCCCTGTNTCCNAACAGAGCC
ACCAAGGAGGAGCAGGGGAGCGACN
Sequence 5026
CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAANANAANATGGCCTTTATTGCAGCACNAA
CTGAGGGGGACTGCATGTCCACAGCTCTCCAGGANCTGCCAAAGGCAACGGGCCCNCCCT
NCCCCTGCAANANGCCCTNCANGGGCNTAAAACCATGGCTTCCCTTAANGAANGGNTAAC
CCCGTGCTTGTAAACAAGGGCCCAAACAACACATAGAGGAGAGGCAGCATCATCATGTGC
AGCTTTGCTACAANAAANATAGTTNTTAATTTCCCCGCGNACCTGGGCCGCTNTAAAACT
AGTGGGATCCCCCNGGCTGCANGGAATTCGATNTCAANCCTTATCGATACCCGNCAACCT
TGAGGGGG
Sequence 5027
GGGTATAATACTAAGTTGAGATGATATCATTTACGGGGGAAGGCGCTTTGTGAAGTAGGC
CTTATTTCTCTTGTCCTTTCGTACTTGTCTAGCTCCTCTCGGTTCTTCCGANCCANCTNC
GTNNATNATTNGGGCCCGGATGTCTGCCATGATCTTGGCGAGGTCCTGAGATTTGGGGGC
ATTTACCTNCACGGTCAACCCAGAGCTGGCAATCTGGGCTTGNAGGCCTTTTACTTCCTN
TTCGTGGTTCTTCTTCATGAAGAGCAGCTCCTCCTTGAGAGCCTNGATCTCTGTCTCCAG
CTGCAGTCGNGTGATATTGGTGTCC
Sequence 5028
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTCGNNCCCNTGCTCCTNCTT
GGTGGCTCTCTCAGAGGACTCCANAGTTGTATCCCCAGGCCGTCTTNCCCGCNTACCTGC
CCG
Sequence 5029
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTATATTTTAATT
CAAAACCTAAGATATGGGTAAAAGAAACAATCCAAATTTTGACTTGGCAATCCTGACCAC
ATGATGCCAGTCGAAAAAACTGAAGACCTTGTTCTCCATCAGAAACTGGCTGTGAAGAAA
AATCGCAGCAGGTAATTCCAAGATCATGTGCTTTTTTCACTATGCAGACACCTCATTTTA
TCATCCCACACTGTTAAATCACCACATGAGGAGCCAGTGACAAAGAAGCTTCCATTAGGA
GAAAATGCACATGCCGCCAAGGAGCCATCTTTAACACTACCACATCTATATAATTTGTAT
GACTGTGCATTCCACAAAACCACAGTTCCATCAGCTGCCCCTGATGCCAAAACACGTTGG
GAGTCTGGGGAAAAACTGGCAAACCC
Sequence 5030
GCGNCCGGGCAGGTACTTTACGTTACTTCTTGCACTTTTCCCCTGGTGGAGAAAGCCTTA
ACTTATCTTGAAAAGGTGCAAATAAGCAATAGCATATACCCATAGCCTCTGGCACGGGGC

Table 1

AGTTCGGTAAAGTTTATAAGCAAGTTTTCACAAGGCACGGCTCCTAATTNTTGAAATTNT
TGGGGCTGAAGTGGGCCCCTGTCGTGGGTTATTCTCAGCACANGTTAATCATTGTTCACA
AACATNTTGAGTGACAGCAGAGAGCCACGGCACATAGAAATGGCACTTTCGTGACCCAGC
GCAGTGGCTCATGCCTGTAATCCCAGTACCTCGGCCGCTCTAGAACTAGTTGGATCCCCC
GGGCTGCAG

Sequence 5031

ACTTAGGGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTTTTTTGGACTGAGTCTNTNTCGCTCTGTCACCCAGGCTGNGGTGCGGTGGCGCTCTN
TCGGCTCACTGAAACCTTTGCTTCCCGGGTTCCAGNGATTCTTCTTTGGTAGCTGGGATG
ACAGGCGCACACCATAACCNGNCCCTNTTNAAANCTTATTTGGANNCCCCCCGGGCCTNN
AGGAAATTTCCCATATACAAAGGCTTATCCGATTACCCGNNNAAACCCTCNAANGGGGGN
GGCCCCGNGTCACCCANNCTTTTGTTCC

Sequence 5032

CCGCGGTGGCGGCCGCCCGGGCAGGTACTATGCTTTACTAATAGAAATACCTCTTTGCTG
GGGGAGGGGAGTGCTTCTGAATAGAAATTACCCACTCTGAGTTACAGCTTTAGTGGCATA
TTAATGGGGATTTAAATTTACAGTAAAAACAAAAACAAAAACAAAAACAAACCTATTCCA
ATTATGACAAAATCTATTTTTTTTTTAAAACCTATCTTAGATAGGACCATCTCCCTTACG
ATTAAGNATGGCAGAACAGAATTGTCANNGAGGAGAGGTTTGGTCTGAAGAGGGTTATCT
GTCCAGGAGAACGCTTTATCCCCAAAGCAATTGCGCTTCAGTTTNCTGTGCGCAGCATAG
CACCTTGTTGGGGGGAGAAAAAGTTNAGCACCTANAAAGTCCATGAACCAAATTCCAGCA
GCAAAAAAAACTTTCC

Sequence 5033

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGTCAGTGTCAGC
CCGAAGGCTGAAGGAAAAAGAGCAACAGATCCAGGGAGCATTCACCTGCCCTGTCTCCAA
ACAGAGCCACCAAGGAGGAGCAGGGGAGCGA

Sequence 5034

AGGTCGGCCAAGGTACAAAGCTACTTTAAGTCTGCTCTTAAGATCAGTTTTTGCTCATAT
TCAAAATACATGGAATGTTGGCACAAAACTGAAGCTGCTGTAGAAAGATCACAGATGTTC
TGTGGGTTACTCAAACTTCCCCCCGCGTACCGATTGTTTCATTGGACATGATGTTATGGA
AACGTGCCAGCTGTCCAAACATCTGTAGGCCAGCCTCCTTTTNTCGGCGGGCTTCTGGAG
TCAGACTATCCCATTCACCTCGATCCTTCTCAATTTGCTGAATCTTTATCTTGCTCAAAT
ACTGTATGGCTTCATCCAAAAGGAAGATGGCATCATTCATTAGCAGGTTAANAAAGCGGA
GGAAAAGTGGGGGGATTCATGGCTTCNTAAATCCTTAGAGGCATAGTCAGCCAAATTCCT
TAATGC

Sequence 5035

CCGGGCATGTACGCGGGAGGTGCCCAGTGTCCACACTGACTAGTGGTGACTGCGTTGGAC
AGTGCAGATACAGAACATTTCTGTCATCACAGAAAGTTCCTTTGGACAGAGCCATGTTAA
GTGATGTTATCACAAGATGGACAGAAACCATTCCCATNGATNGGANTTAANTTTTTTCAG
AACCCCAATTTTTGTGGNAGAAATAAATTNANTGNATTGCCTTTTACANTANTGGTCTTC
NATGAAATTCCTTTAAATTATT

Sequence 5036

AGGTACATGGTGGATGATTTTAAATCACCCTAGTGTGCTGAGACCTTGAGAATAAAGTGT
GTGATTGGTTTCATACTTGAAGACGGATATAAAGGAAGAATATTTCCTTTATGTGTTTCT
CCAGAATGGTGCCTGTTTCTCTCTGTGTCTCAATGCCTGGGACTGGAGGTTGATAGGTTN
NAAGTGTNGTTCTTACCCGCCTCCTTTTTTCCTTTAATCTTATTTTTTGATGAACACATA
TATAGGGAGAACATCTATCCTATGAATAAGAACCTGGTCATGCTTTACTCCTGTATTTGA
TATTTTGTTCATTTCCAATTTGATTCTCTACTTTTCCCTTTTTTTTGGTATTATNGTGACT
AATTAGTTNGGCCATATTGGTTAAAAAGTCTCTTCAAAATTTAAGGCCCAGAATTTCTTA
AAAACATTGCCTGCAAGCNAAGGAGGGA

Sequence 5037

CCGCGGTGGCGGCNCGAGGTACACACATCACAGCCCAGACACGCGGTGTTGATTGAGACA
CTCTGTGCCCTGGGGGCTCAGTGTCGCTGGTCTGCTTGTAACATCTACTCAACTCAGAAT
GAAGTAGCTGCAGCACTGGCTGAGGCTGGAGTTGCAGTGTTCGCTTTGGAAGGGCGAGT
CANAAGATGACTNCTGGGTGGTTGTAATTGGACCGCTGTGTGGAACATTGGATGGGTNGG
CAAGGCCAACATGATCCTGGATGATGGGGGAGACTTAACCCACTTGGGGTTTATAAAGAA
GTATCCAAAACNTGTTTTAAGAAAGATC

Sequence 5038

Table 1

CCGCGGTGGCGGCCGCCCGGGCAGGTACCATTCCGGGTCATCCGCAGAAATTCCTCATAG
ATGGCAACTCTGTCTACTCTCCGAGCCAGTGGCGAGAAGTTACACAGGGAGTCCACCCCG
GTGTGGTGCCTGTTGGGGACAGACCTGAATGTTGAAACTTGACAGTCAGAAAAATAACTC
TTGATGCTGCTTGTTTCGGAAGAGTTGGTTGAGCGCATCCTCAATATTCCTTTTGTTCCT
CTGGTAATTGGTGGTGCCTGGCTGGGCTTTGTCCTGGGAATATGGTAGGTTGGTGATGGT
GAAATTCAGGTAAGAAGTGCTGGGTGCTGGAGCTGCCTGTTGGTTGATAAACTGATGACT
CCATTTCTGTCACATGGATGTCCACCAACTGGTAGGGTGGAGCCCAGCCAATGGAAATGA
GGCATTCAGGGTCTTATCTAGAAAGAC

Sequence 5039

CCGCGGTGGCGGCCCGAGGTACAAAATAAATTTTCAGAAACCAACCCTAAAGAAAAGGGG
CTATATTAATTACCTGACAAGGAATTCAAAACTATTGTCATAAAGATGCTTAATGAGCTC
AGGAAAATTATGCATGAAGAAAATGAGAATTTTAACAAAGAGAATATTAACAAAGAGAAA
ATATAAAGAAAGAACTGAACAGAAATTTTGGAGAAGAATGTAGTAACTTAACTAAAAAGT
TCACTAGAGGAGTTCAGCACAAGACTNTTCAAAAAAAAAAAACNAAAAGGGCNNTCCCTG
GAGTTATCCTGANCCAGGGTCGGNGGGGTCAGACCCAGACCCAGCACGAAGACCAACAAC
AANAACGC

Sequence 5040

CCGCGGTGGCGGCCGAGGTACTTGTGGCTGGTTGGAAGGGAGCCCCAAAATTAAACCCTC
CAGTGCCAGAGGTGGAGAAAGAAAACCCTGTAGCAGGTGTGGTTGTTGCCGTCTTTGCAG
TGCCAAACGTGAACCCGCCTGTAGGGGCCCCAGTGCCTCCAAAATTAAACCCGCTCATGG
CTCCGGACTCTGGTGGCGGCAGCTACTCTGGCTCCCAAAGCAAATCCGTCGGTGTCTGCA
GCCTTGGGAAGATTTCTGTGGGTTTTCAACTGTCCTCTCTCTCCTCCTTAGGTCACCT
GGCATTCTGGTCCCATTTTCCTCCCTGATGCCTTTCAACCTACAGGCATAACCCGACTTN
CATT

Sequence 5041

CCGCGGTGGCGGCCGAGGTACAAATAGGTGAAAGAAAGAAACTTAACTTTTTGTTTAGGG
TGTTTGCAAGGGGACATATTTTCAATAGAAAAATCAGCAGGTTTTGGCCTTTGGTCTGTT
TCTGAAGGGTGAGTATTCTCCATGACAGAAAAAGGCAAAGGTAGGTCAGAGGTGGCGAGT
TTCTTCATTCTCAAACAAGGGAGAAGACATCCTTTGATTAAAGAATGAGGCGGGGTGGGG
GAGGGAAGGACATGGACCCCCTCCCTTTAAAATTTCATCTGGGCCTTCAAGGCACTTCAA
AAGACACAGAGTGAACAGTGCTGGCTGCCACTTCACTCGGTATTGACTGGATAGTTTAGA
CTGTTGGGCTAGACCTGGCTCACCCTTAAAAAAAAACAAACACAAACACACAAATACAAT
AAATAAAACAAATGTAGGCTACAAATTTTAAACCAGACCTCTTTCAAATAAACTGAAAGA
TAAATATCTCCATCTGCAAGGCCAGCTTGCAATTCATCAATAANCACCAAGTTCAGATTT
TTCTTTTTTTAAGTGTGCTCAAAAAGCCCCATGCTTNCGAGGGGGCAAAAAAGCCAGAAA
TTGAANGCCCCGTTGNAAGCACNAAAATTTTCAGGGNCCTNCCTTCTGGTGTACCCTGNC
CGGGCCNGGCCGTTNTAGAACTAAGTNGGATCCCCCCGGGCTGCANGGAAATTCGATATT
AAAGCTTATCCGATACCGGTCGACCCTCGANGGGGGGGG

Sequence 5042

CGCCCGGGCAGGTACGTGTTTTCCTTCAGGACCAGAGCTGAGAGGAGCTGGGATCGCGGC
GGCAATGGAACGGGCCTCANAAAGGCGCACGGCCAGCGCGCTTTTTGCGGGGTTCCGGGC
CTTGGGACTTTTCAGCAACGACATTCCACACGTGGTGCGGTTCANCGCGCTCAAGCGCCG
GTTCTATGTAACAACCTGCGTGGGCAAGAGTTTCCACACCTATGACGTTCAGAAACTTAG
TCTGGTTGCAGTAAGTAATTCTGTTCCACAGGATATCTGCTGTATGGCAGCTGATGGCAG
ATTAATCTTTGCTGCTTATGGAAATGTTTTCTCTGCATTTGCCCGTAATAAAGAGATAGT
ACCTCGGCCGCTCTAGAACTAGTG

Sequence 5043

CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGCTTCCTGTAAAGCC
TGCAGAGCCATGAGCCAATTAAACCTCTTTTCTTTACAGATTACCCAGTCTTGTGGATCA
TGAGGTCAGGAGATCGAGACCATCCTGGCTCATACGGTGAAACCCCATCTCTACTAAAAA
TATAAAAAATTAGCCAGGCATGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTG
AGGCAGGAGAATGGCATGAACCCAGGAGGTGGAGGTTGCATAGAGCCGAGATCGCGCCAC
TGCACTCCAGCCTGGGCGACAGAGCAAGGCCCCGTCTCAAAAAAAAACCCCAAAAAACCAA
AAAACCAAATTACCCAGTCTCAGGTATTTCTTTATAGCAATCCAAGAACGGCCTAATACA
ATGGGCTCCCAACACATAAAACATACAGCAGCCACAAAATAATTAGAAACAATGTTAAGT
AATGCCCACTAAATTTTGAATAGCAAAATATAGCATAGAAGTATAAAACAAATGTATTTC
TTATCCCTCAAAAAAGGGGCATCTTTTTGGTTTTTGNTANTGCTGGTTGGA

Table 1

Sequence 5044
GGAGCTCCCCCGCGGTGGCGGCCCGAGGTACTGTAATGAGTTTAGGAGAGGCTGGGCACG
GTGGCTCATGACCGTAATCCCAGCACTTTGGGAGGCTGAAGCAGGAGGATCATTTGAGTC
CAGGAGTTCAAGACTAGCCTGNGCAACATAGTGAGACTTACGTCTCTATAAAAAGTAAAA
TGAATTAAGCTGGGTATGGTGATGCACACCTGTGGTCCCACTACTCAGGAGGCTGACGTG
GGAAGATTGCTTGAGCCTGNGACATCTAGGCTGCATTGAGCTGNGATTGCACTACTGCAC
TCCAGCCTGGGCAACACAGCATGACCCTGTCCCATAACANAAAATCNTAAANAANANACA
GTNCCCACGTAAAGACNTTAGGTCAAGGTGTAGCCCATGAGGTGGCAAGAAATGGGCTAC
ATTTTNTACCCCAGAAGACTACNATAGCCCTTATGAAACTTAAGG
Sequence 5045
TACGACTCACTATAGGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTA
CTGCAAGTAAAACCTACTCCCCAAAAATGTGTGGCTTTGGGTCTGCATTAAACGCTGTAG
TCCATGTTCATGCCAAAAATGGCTGGGAACGTTTGCTTTATTTACATTCAGTCAGCGTTG
CTTTCAGATCACACTTTATCCACACAGGAAAGCCAGTCAGCCTATAATGAAGTAGTTATT
AAAATAAATGTAATGAATATGTCTACAAAGTATAGTTTAGTGGTTTATTTTGCTAAAATG
CACATATATTTGATATAATTTAGTTTGAGAAGTTCAGCTAGTTTTTCTCCTTTGTTTGAC
TTTGTCAATTTCTATCTGGTTTTTAAGGGTCTGAGCTTAGCTTGTGCATGCAAGGTTTTG
GGGTTTTTTTATTTTTTTTTGAGCACAGCTTTTCACCTTTTAATTTGTTGGGTATTTTTC
TCTTAATAAGAGAAATATTGGCCATCGATTTTTACATATAATACAAAGTGTGTTTTTCCA
GTACCCTCNGCCCGCTCTAGNAACTAAGTGGAATNCCCCGGGCTGCAGGAAATTCTGATA
TCAAGCCTTANTCGATACCCGTTCGACCCTCGAGGGGGGGGC
Sequence 5046
GGTACAGGGACGTGATGTTGGAGAACTACAGGAACCTCGGCTTCCTGGCAGGACTCTGTC
TTCCTGACCTGAATATTATCTCCATGTTGGAGCAAGGGAAAGAGCCCTGGACTGTGGTGA
GCCAAGTGAAAATAGCGAGGAACCCAAACTGTGGGGAATGCATGAAAGGCGTGATCACCG
GTATCTCTCCTAAATGTGTGATCAAGGAATTACCACCAATACAGAACAGTAACACAGGAG
AAAAATTCCAAGCAGTGATGTTGGAAGGACATGAAAGCTATGACACTGAAAATTTTTACT
TCAGGGAAATCCGGAAAAATCTACAGGAAGTTGACTTTCAATGGAAAGATGGTGAAATAA
ATTATAAAGAAGGGCCGATGACCCATAAAAACAATCTTCTGGTCAAAGAGTTCGACATAG
TCAAGGGGACGTAGAAAACAAGCATATGGAAAATCAGCTTATATTAAGGTTTCAGTCCGG
TCTGGGTGAAATTG
Sequence 5047
AGGTACGGAATAGACTGGAATGGAACGAAATGGAATGGAATGGAATTGAATGGAATGGAA
TCAACCCGAGTGCAATGGAATGGAATGGAATGGAATGGAATGGAATGGAAATAACCCGAA
TGGAATGTAATGTAATGGAGTGTAAGGGAATTGAATACAATCAATCCGAATGTAATGGAA
TTGAATGGAACGGAATGGAATGGAATGGAATGGAATGGAATGGAATGGAATGCACTGGAA
TGAAATCAAACCTAGTGCAATGGGAATGGAATGGAATGGAATGGAATGGTATGGAATGGA
ATGGAATGGAATGGAACGCAAAAGAATGGAATGGAACGAAATGGAATGGAATGAAATGGA
ATGGAATGGAATGGAATGGAATGGAATGGAATCAACCCGAGTGCAGGGGAATGGAATGGA
ATTGAAGGCAATGGAATGGAATCATCCCNGAATTGAATGGAATGGAATGGAATCAACCTT
GATTTCAATGGGAATGCAATGGAATGGAATGGAATGGAATGGAATGGAAATGGAATTACC
CGAATTAGAATGGAATTGAATGGGAATGGAATGGGAATGGAAATAAAAT
Sequence 5048
CGAGGTACGCGGGGGACGGTCACTTTTTCCAACAAAACCCACTCCATAGCCATGTGGATT
TTTATCCAAAGGCTCAACAACCAGAGGGAATGGTGAGACCTGATAACTAAAATACTGTTA
TTGGCAAGGGTTTGAAATGTGTAAGAACCTAGGAGGGAAAGGAAGATTGAGCAACATAGG
AAAAGGGGAAGAGAGGCTGAGTGTCACCAAGGTCCAAACTCCATTTATAAAAATACTGCA
AAACCAGGAGTTGATGGTAGAAGTGCATATGATCCATGGCAGGAGTAAATCTCTCCACCT
CCTCTAACTCTCTGAAAACTCTAGAGTTGGAGCAAGTCTTCCATTTGCTTCTTATCCCCT
TAAAAGAATGCCTTCCACTTCCCAACAGCCCCCATCAAGGGACCCCAAGAGGCCACCATG
CTCTTATCTCGCACTTTCTTTCCTATTCCCCTTGCCTGAATCTGGAGTGGGGTTGAGCCC
TCTGCCTTCAACCTTAAGATTTAGGGAAGTTCTTTCCCCAACTGTCTACTTGGAAAGGTA
GAATGAAGTCTTGAATTTTGAAGTAACGAATGCAAAATTCCACTTCAGCAGANGCAATGT
TATTTATGTACCTGCCCGGGCCGGGCCGCTCTTAGAACTAGGTGGATCCCCCCGGCCTGC
AGGGAATTCNATATCAAAGCTTTTTTGAAANCCGTCNGACCCTCGAGGGG
Sequence 5049
GTTTCCCCTCACGGTGGACTTACCAAGAATTTTTCAGCCGCTACCGTGTCCTAATGAAGC

Table 1

AGAAAGATGTGCTGAGTGACAGAAAGCAAACATGCAAGAATGTGTTAGAGAAACTGATAC
TGGACAAGGACAAATACCAGTTTGGTAAGACAAAGATCTTTTTCCCGTGCCGGTTCAAGT
GGGCCTATCTTAGAAAAATTTGAGAGCTGACAAACTGGAGAAGCTGCCTGCATCCGGATC
CAGAAGACCATCCGAGGGTGGCTGCTTGAGAAAGAAGTACCTCGGCCGCTCTAGAACTAG
T

Sequence 5050

CCGCGGTGGCGGCCGACCGGGNANGACCTGTTACCATGACACANANCGNCNATGACCACG
GNACCACACCAAGAATCATNTACCTCTATTACAACCAGACATTNGCACTNAAATAAGGAG
GTGCTGCCNTATACTTATCCGTTGCTGGAGGC

Sequence 5051

AGGTACAGGGTTGGCGCTCTGTTACCCGATTGCTTTCCAGCTGTGTCTGGTTCCCATTCA
TGCTGCCTCCAGCAACGGATAAGTATACAGGCAGCACCTCCTTATTTGANTGCAAATGTC
TGGTTGTAATACGAGGTAGAATGATTCTTGGT

Sequence 5052

CTATAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTTTTTGGGTAAATGGTTTGGCTAAGGTTGTCTGGTAGTAAGGTGGAGTGGGTTTGAAC
GCTTTCTTAATTGGTGGCTGCTTTTAGGCCTACTATGGGTGTNAAAATTTTTT

Sequence 5053

AATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATGAAGTAGAAGGCCCAAAA
TGGAGAGATAAATTATAATGGTAACCTTGATTGTGACAGAGCTTCTTTCTTCATATTTGC
ATTCACAGCGTAGACAGTATGCTTCTACATCAGGCCCCCGCACAGGCATGGGCTCCACAA
CATGAAGGCAATCACAAATCTTTNTNGAGANTATGTTCTTATTTATAAATATTGCCCAGA
ATTTTTCTTTTATANGGGAGGGCAAGATACATTTACATCTGACATCCTCGAAATTCTGCC
GCCCACAGCGCCTNCTGACCACAGCCCCCGTCGGCTTTCTAATTCTGTGAGCTGCCCTCG
TGGGCNTGGCCTCCCCCGCGTACCT

Sequence 5054

AGGTACGCGGGAGGAGAGGCAACATACTCCAAATAGTTGGGTTCTTCAGGGAAGCTATTA
GAAACTCAGGTGACTTGTTAGAGCACTAACTTGGTCAGAGCCAAATCCTGGCAAACGCTG
CCTGACCTTCACTCTGTGGTTGGGGCAGTGAGAACCACTGAGGTCCAATGATGAAGACTT
GGAGGTCTGGATCCAGTCTCTCTTTGTTTTAATGTGACTTAGGTGCTGTCAACATTAGCA
AGATAATGGAAATCACGACGCCAGTGGGTGCTTACCTCCCTGCTAGGCATGCAGGGGCTG
GCGGTTGGCAGGGGAAGGAGGCCCAGTGAGCCGAGTCCCTTAGGGGAGGGAGAAGTTTGT
CCTTCTTTGCCCCCACAGTCTACCCTTNAGGGGCCCTTTGTGGCAGTGCCAA

Sequence 5055

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTT
TTTTTTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCATGCTGGCCAGGCTGGTCTCGA
ACTCCTGACCTCGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAAACGTGA
GCCACCGCGCCTGGCCTTCCTTGCTCTTNTTGGTTCCAAATCCTGGGAACGCCTGAATCA
ACAGGCGGACATCTGTCAAACCTTCCTAGCAACTACGCCTGCGGATGGCCAACCTGACCC
TGGAAGACAGTGGGGTTTAGTTAAGCACAGATTGGACTTTTTTTTTTTTTTTTTTTTTTT
GGGGTTTTTGTTTAGTTTATATCCTTCTTTTTTTTTTTTTTTT

Sequence 5056

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAATGAACAAATATTTATTTAT
CTTTTATAACAAGTAAGGCAATGTTGCTTAAAGGAAGACAAACAAACATAAAAGATTCCG
TNGACAATGCATTTTTTCATCTGTTCGGCACAATGCTTTTGNCATAAATGGGAAGTANGT
NNACNAGGCAAAAACTTTTCCCCAGGGAACANTTTCCAGTTCTTTTCGGGCCGGGCAAGN
CACCTTTAAGNGGCCAGGAATTGNACTTTGNGTCTCGGNTTTCAANAAATTACTCCTTAT
NCCTCTGGTTTTTCCAAGGGNANCCAGGTTGGGGTAAAAANAGGCCTTGGCCTTTTANTT
AAGNAATTGGAANGGGGCCCCATANATNCCNTCCCCAAGNNGTTCATGTGNTTGGGGGAA
AAGNGGNTCTNCCCTTTTGGTNTATTNCCGGGGNTTTCCCGNAAAACCCCCCCCNGNAAC
CATGGTCCGGTCCGNCCCCANATCCTANGTAACTAAAACCCATCCGGGAGGGGNCCAANG
NTTGGGGGGGGGAAAGCCCAANANCCANNTTGNCCCTTNGTTNTTTTNTAAAAATTGGAA
AGCCCCNCCCNCNTGGGGGGGNTCGTCCAAAGAGGCCCTGTTTNGNCCTTGGTAAGNGGG
CCTTTGGAAAAAAA

Sequence 5057

CCGCGGTGGCGGCCGAGGTACGCGGGGAGAACGTGTGCAGCTCAGCCAGCCACAGAACTG
GAATTTTTCAGGAGCAGGGGGAGCATGGAGTTTGGACTTTGCTGAGCAACTGAAGTGGAG

Table 1

CGCAGAGCTTGCTCGCTTAGGAGAGAGCATCATGGATGGCAAACAAGGGGGCATGGATGG
GAACCAAGCCCGCGGGGCCAAGGGACTTTCCTGGCATCAGGCTTCTTTCAAACCCATTGA
TGGGCGATGCTGTGTCTGATTGGTCTCCTATGCATGAAGCTGCAATCCACGGACATCAGC
TGTCTCTGAGGAACCTCATCAGCCAGGGGTGGGCTGTGAACATCATCACGGCAGATCATG
TTTCCCCACTCCATGAAGCCTGTCTTGGAGGTCATCTCTCTTGTGTGAAGATTTTATTAA
AAGCATGGAGCTCAGCACGGAGCCAGCGTTCAACCTGA

Sequence 5058

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAATGAACAAATATTTATTTA
TCTTTTATAACAAGTAAGGCAANGTTGCTTAAAGGAAGACAAACAAACATAAAANATTCC
GTTGACAATTGCATTT

Sequence 5059

TTGTTGTNTCATTTTTTTCTAATGTCTCCCCTCTACCAGCTCACCTGAGATAACAGAATG
AAAATGGAAGGACAGCCAGATTNCTCCTTTGCTCTCTGCTCATTCTCTCTGAAGTCTAGG
TTACCCATTTTGGGGACCCATTATNGGGCAATAACACANTTCCCAAAGCNTTTGGACAGT
TTCTTGTTGTGTTTTAGAATTGGNTTTCCTTTTTCTTAGCCTTTTCCTGCAAAAGGCTCA
CTCAGTCCCTTGCTTGCTCAGTGGACTGGGCTCCCCAGGGCCTANGCTGCCTTCTTTTCC
ATGTCCCACCCATGAGCCCTCCACTGGACAGCTCAGGTAAGCCTGGCCCTTCATTCTGCG
CTGTGTTCTTCCTCTGTGAAAATCCAANACCTCTTACCTCCTNTGCATGCAAAG

Sequence 5060

CCGCGGTGGCGGCCGAGGTACTTTGGGCTTGCTGGTGTGACAAAAAATACATTTGAGGTA
ATTCCAGTGAATTCTGCAGGCTCTCCTGTTGGGGATGTGCCATTCATCCGATCAGGATTG
CTGGGGTTTGTAGGGCCGGGTAGTTTGGTGTTCGTGGTTGGGAAAATGGATGGCTTACTG
AAGGGTTAAGTGGTCNGAAAGACATAATGCTGATGACATTGTTGCTACTGGATTGGCTGT
AGAATCAATAAAGACTGTTTATAGAGGAAGAATTGCTGTGTTTTCTGTGTCTGTATTTTA
TGATGAGCGCATTGTGGTGGTTGCGGAACAAAGACCTGATGCTTCTGAGGAAGATAGTTT
CCAGTGGATGAGCCGCGTGCTGCAGGCGATCGATAGCATTCATCAAGTGGGGGTTTATTG
TCTTGCTCTGGTGCCAGCCAATACATTGCC

Sequence 5061

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCCGAAAAATAAGACAATTTATTTTGTNG
ATGACATGATTGTAAACCTAGTTATGCCTCTGCTCCCTCATTTAAAAATTAAAAATCAGG
CCAGGTGCGGNGGCTCACGCCTGTAATCCCAACNCTTTGGGNGGCCCAAGGGNGGGCCTA
TCNCCTTGAGATCAGGGATTTCTGAAGACCANGCCTTGACNCAACAATAAGTTGAAATCC
TGTCTNTACTATAANAACACANAATTANCCNGGGCGTNGGGGGTGCANTGCCTTG

Sequence 5062

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGTGTGACTGCG
GATGGAGCTCCAGTTTTCTCCCAATTTTGCGCTAGGCAGAGAAAAGTAGAAACAACCAGA
TGATGTCCACCCTGCTAGTTCTAAATCCTCTTTTGGGTGCTTGGTAAGGAGAGGTGGAGG
GAAGGGAATATGAGGAAGGGTCGTTTANGGGAAATTAAATTCCTTGGTTGAGCCAATGGG
GCGGTGGCCTCTAGCTGTGGTCAGCACTGCACAGAGTANGGGTCTGGAAAGGAGAAAGAG
GCAGAAGAATCTGGCTTGAAGTANGATGCAAATACTTACAACGAGGAAACTTTCTCTGCC
AGATTCAAAGGGGCACATGGCTTTTGTAACCTGGAGAATGAGGTGAGGTTAGAGCTGTGT
TTTCCCTTACCACTGGCTTATCAAGTGGCCTGGCACAGTACCTTGCCCGGGCCGGCCGCT
CTAGAACT

Sequence 5063

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGCAGC
ATGCACTGGCATACTATAGCTTGGTCCAGCTCTTCCAGAGCCCCAACCACTTTCCAAATT
GAATCCTAAAGTTTTTGGTGCAGGACCCAATTTAAATCCATGTTTCTTCCCCGCGTACAA
ATTGCTAATCAAAAGGAAGGTGGAGATGGTAGTTTTAATAAACAAATTAGTAAAACGGGT
GTTGCTGAATACAGCACCCGGTAGCCTCTATTTGCAAACCCGGGGAGGGAAGGGGGTGCC
CCAACAACAGTGGCTCCGCCTCATTGTCCAGGCACAGGCAAACCGCAGTAGTGAGCTTTG
GTACCT

Sequence 5064

AAAGTTGAAGAGCAAAACGACGTGTCTAACGTCACACATTGAGCTTTAAAGACAGATGGG
ATCTGGCATGCGTTTGTCAGTTAACAGTGCTNGCACAAATACAACTCTTGTTAAAATCGT
AAGGATTTTATGTCGTGAGACACTCAGGACTCACCTGATCTCGGNGTTCANTGTGNGCGT
AGTTTTTGATTTGCGCCTCGCCCTTGGGCAAGTGCANAATCCTGGGGTTATACAAAGCTC
ATCNNAGTTAACCCCTTTGTCCCANTCCGCAGAATGNGAGCTNAGAGCCCGGCCATGGGA

Table 1

GGCTCGGTTATNTNGGCAGGAAAATCAAGGAACCCANGTTTGAGCAGGGGCCG
Sequence 5065
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTTTNGNGGAAATATTTGCTTTTAAACATTTGATTTTCATCAATCTT
TGGATGATTTGACNTTATTGTCAATATCTAGTAAATTNGCCAAAATATTTTTTTTNTTCC
TTGCGCCCCTTTTCCCNCNTAAAAACTGGGGCGGGGGNGAATTTTCTGTTTTCCTAANCA
GGAAGGNGGCAAAGCTGG
Sequence 5066
CCGGGCAGGTACCAATTTACTGTATTAGTCCGTTTTCATGCTGCCGATAAAGACATACCC
GAGACTGGGTAATTTACAAAGAAAAGAAGTTTAATTGAACTTACAATTCCATATGGCTGG
GGAAGCTTCACAGTCATGATGGAAGGCAAAGAAGGAGCAAGTCACATCTTACATAAATGG
TAGCAGGCAAAAAGTGAGATCTCATGCAGGGGAGCTCCTCTTTTTAAAACCATCAGATCT
CAGCTGGGCACAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAAGCTGAGACAGGCAG
ATTATCTGAAGTCAGGACTTCAAGGCCAGCCTGGCCAACATGGTGAAATCCCCTCTCCAC
TAAAAATACAAAAATTAGCCAGGCATGGTGGCAGGCAACTGTAATCCCAACTACTTGGGA
GGCTGAGACAGGANAATCA
Sequence 5067
GCCCTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTA
CTTTTTTTTTTTTTTTTTTTTTTGAGACAGCGTCTTAGTCTGTCGCCAAGGCTGGAGTGC
AGTGGCGCAATCAAAGCTTGCTGCAGCCTTGAACTCCTGGGCTCAAGCAATCCTCTTACC
TCAGCAACTAGGACTACAGGGCACATGCCACCACGCTTGGCCTTCTAATTTATTTCTGNG
TCAACAAAATAAAACTCAGGCCTAGGAATAGCTTGGTTCAGAAATCACAGAGGGACTTAG
TATTCCATTAATCCCGCGTACCT
Sequence 5068
AGGTACGCGGGGCACCAGAAACATATGAAGAATATGGATATGATGATACATACGCAGAAC
AAAGTTACGAAGGCTACGAAGGCTATTACAGCCAGAGTCAAGGGGACTCAGAATATTATG
ACTATGGACATGGGGAGGTTCAANGATTCTTTATGAAGCTTANTGGGCCAAGGTACCGAC
CTGGGAATTGGGGTACCAGGCNCGTTNGCTGAAGGCCCCTCCTGCTAGACCAGNTGGAAG
GGGAGCATACAGTAGAGTCACCCATTATGGGACGTTATTAAAAACAAACATTGANNGGGG
GAAAATATTCAGTTTATTGAGGCAAAAGGTTTGNTTACTTGAATTTTCTTTGTAATCTCC
CAGNGATTTCGCTGTTGGCTTTTTACCCCACTAACCAAGGACCAAAGTTAAATTAGTTCC
TANAGATGGTNTTTTCTATCNGTNGGTTCCCCNNTTTTCTTTCTTCCCCCC
Sequence 5069
AGGTACTTTTTTTTTTTTTTTTTTTTTTTGGTAGAGATGGGACTTCCTACGTTGCTCAGG
CTCGTCTTGAACTNCNGAGTTCAAGTGATCCACCCACCTTGGCCTTTNAAAGTGCTGANA
TTACAGGTGTGAGCCACCACACCTGGCCAAAAATAATAAAANATTTTTAATTCNTGNTAA
AAAAAAANANAAGNGCAGCAAAAGTGGNAAAATGTTGTTTCATNCAACAATANCTCTTTT
CTTTCACACATNTGGAAATATAAATATGTATCCATTTAAATTACTAACTATCCANGTTGA
ACNCANCCCTGAA
Sequence 5070
TGGGCCAGTGGTTGGGGGCAGAAAGAAGGTCAGAGGCCCTGAACAGATAAAGCAGGAGGT
NGAGAGTGAGGAGGAAAAACCCGACAGGATGGATATTGACAGTGATACACAGATTCAANC
ACATCTTTGCAAACAAGGGCTAGAGAAAAGAGGAAGCCTCANCTGGAGAAGGACACAAAG
CCGAAAGAGCCCAGGTATACTCCCGTGAGCATCTACCGAGGAAAAGCTGCTGCTCAAGAG
GCTGGAAGCTTGTCCCGGTGCTGTTGCCATGACTCCGGAAGCTCGGTAGACTGAAACNCA
AACTGATTGTCAGACAAGCGAAAAGGGATAGGGGATTACCACTTTTTGACTTGGATCAAG
TTGTTAATGCTGCNTCTTTTGTTAGTTTG
Sequence 5071
AGGTACGCGGGGGACATATCACCTAAGCTCTGGATTCGCAGATAGGCCCCAATCTCTTTT
TTGGGCAATGCTCGGGTAAGAGAGCAGAGTCACATCAAGTGGTTGATGGGCCCAGAGATA
TATCACATTGCCCCTTGTGGACAGGGACCAGNCCAGGGGGACTCACATCACAATAGAGGT
AGGACAAGGAATACATCACAATACGTTTTGAGAGCAGAACCAAAAAAGAGTAACATAATC
TTTGTGTTGAGTGCAGCAATATGTTACACTTTTCTTTGTGGGCAGAACGTGTAAAGAAGG
AAAAAGTTGGCCGGACACGGTGGCCTGTAATCCCAACACTTTGGGAGGTCAAGGTGGGCA
GATCACCTGAGGTCAGGAGTTNAAGACCAGCCTGGCCAACATGGCAAAACGCTGTCTCTA
CTAAAAAATNCAAAAATTGGCTGG
Sequence 5072

Table 1

TNGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGGGCTCTCAACGTGGTG
TGGAAGGTAGCCTGTTACAGTGCTGGATTCATAAAAGGGTCTTTATGGTTTGTGAAAGAA
TATCTGTGTGCTTAGGGAGGAAACTTTTTGATCTGCAGAAAAGCCAGAAGACATCTAGGA
CATCCATAAAAATTCATCAGAGAGCATTTTACTACTGAGCTGCAAAGGGAAAAACTTAAA
ATGGATATGAAAAGTGAAGAGAGTGATCATAGGAGAAAACCATTTCAGATGACAAGAGCA
CCTCAAAGGCAGCAGCCTCAAGGAGCAGCCATGGCCCCAGACTTGTCGCACGGATGCAGA
AAACTTAATGGAGGAGGCTGAGGTCAGA

Sequence 5073

AGGTACGCGGGGATGCTGCCATGGCTGCAAGACCTCATTCAATTGATGGGAGAGTAGTTG
AGCCAAAACGTGCTGTANCAAGAGAGGAATCTGGAAAACCAGGGGCTCATGTAACTGNGA
ANTAANCTGTTTGTTCGGNGGATTTTAAAGNAAAATTTCCTTGNNGAACCAATNCANNCT
TTAGNAGNATTANCTTTTAGAGTGANATAATTGAGAAAANAATNTGCATTACCCANTTTG
TANTATAAATATAACTTGTATTACGTGCCACGTATCCTTGGTAATAGGAAAAANGTAGGG
CNTTTATNNGTCNTATTTGTTTATCTTTTTTTTTGAATGGGAACCCANTNGTATTCACCTT
NTTGGCAATTANAAAAATTCNNGTGAATNTTGGGNAAAGAAAAAANTTNNNTCAATTTAC
CNCAATTCCNAAATTNGGGGGTTCCATTTANATTNGCCTAANNAAATNTTTANAGGTAAA
ANAGNGGTCCTTTTNTCGCTTCNTTAAGGTAACCAAAAGGAAAAAAATTGNCNANAGCGG
AAAAAGNNTCTTCNATAGNAATNTTTTCCTTAATGGGAAGGTTGNGTAAANGAAGTGNAA
GGGNCCAACACCTTTTTTGGGCCTTTTTTG

Sequence 5074

CTGAGCGCCGACCCACGCCCTGCCTGCTCTTCCAGTCCAGCCAACACTCTAAGCAGGCAC
CGCCTCCACTCGCAGCCCCCGGGATGGGTCCCACTCCCTACCGCAGATCCCCAGGCCCCC
TCCACCCAGTCGGCTAGCCCTCGCCTTTGCCATCCCGATACTAAAATGTCTGATGATGCT
GGTGACACCTTAGCCACTGGAGACAAAGCANAAGTTACTGAGATGCCTAATAGTGATTCT
TTACCTGAGGATGCAGAAGTGCATTGTNGATTCAGCTGCAGTTTCACATGAGCCAACACC
AGCTGACCCCANAGGGGAGGGGCATGAAAATGCANCTGTGCAGGGTGCAGGGGCTGCCGN
CATTGGGCCCCCTGTGCAGCCTCAGGATGCCANCGCCCTGGAAGCCCCCTTCTCAATGGA
AGACCGTG

Sequence 5075

AGGTACATCAAAGAAAATAAGATATACCTTTTTTTTTGAGAGGGAGTCTCACTCTGTCGC
CCAGGCTGGAGTGCANTGGCGCGATCTTGGCTCACTGCAACTNNTGCCTTCTGGGTTCAA
GCTATTCTTCTGCCTCAGACTGCCGAGTTAGCCTNGGGATTNACCATATTGTNGCACCTN
ACNCNACCGNGCCCNTTTCTTANNAAACTTAGGTGNGAATNNCCNCCCGGGGCCTTNGTC
AATNGGAAATTTTCTNTATTATTCCANAGGCCTTTTATTTCNGAATTAACCCCNNTTNCN
GANCNCCTTCTTNAAGTGGGNGNGGGNGACNCCCCGNAGATAACCACNCNAGNCCNTTTT
TTTGNTATTTCCCCCTTTTTTAANGATTGGANGNGGNGGTGTTAAAAATTNTGGCCCGNC
CGGCCNTTATGGGGCCCGTTAAAAANTTNCAANTNGGGGGTTTCCAATTNAAGNCCCTTG
GGTTTTTNTCNCCTTGGTTGGTTTGGTAAAAAAATTTTTGTTTTTAAATTCCGCCAGTTC
TTCTAACCAATATTNTTNCTCCAACCCANCNAAAATCNAAATTATCCGGNAAGNTCCCCC
GGGGNNGTAAAGGCCCATTTAAAANAAGTTTGGGTTAANANAAGGCCACCTTNGNGGGGG
GG

Sequence 5076

AGGTACTTTTTTTTTTTTTTTTTTTTTCTGAAATGAACAAATATTTATTTATCTTTTATA
ACAAGTAAGGCAATGTTGCTTAAAGGAAGACAAGCAAACATAAAAGATTCCGTTGACAAT
GCATTTTTTTCATTCTGTTCNGGCACAATTGCTTTTTCGTCCANNANTNGGAAGAATTGT
TGACCAANGGCAAAAACCTTTTTNCAGGGGAACAATTTCAAGTTNTTTTCGNGGCGGGGC
NANGNCACCNTTTATNGGGGCAANGTANTGTANCTGGGGCCACGNNTTTTATTATGTAAT
TGAAGGGGCCTCAAATANGTCAACCCCATGTGTTANTGTGTTNGGGGAAANGGGTATTCC
TNTTGGTTANTTCCCGNGGTTTTNCGGAAAACCCCCNCTGNAACCAAGGTCNGTCCNGCC
CCAAATCCAATGTAACCAATAACCNACCTTTANGGTGGTCCAANTTTNGTGTGNGNTAAG
NCCAAAAACCA

Sequence 5077

AGGTACTGATTTTAAAAACTAATAACTTAAAACTGCCACACGCAAAAAAGAAAACCAAAG
TGGTCCACAAAACATTCTCCTTTCCTTCTGAAGGTTTTACGATGCATTGTTATCATTAAC
CAGTCTTTTACTACTAAACTTAAAATGGCCAAATTTGGAAACCAAAACCAGGTTTCTGAA
GACCCGTTCTTTCCACNCACTTGATTAAGAAGTTGGGGGTGGGCCAGNGNTATTAAGTGG
GATAAATATTTCATTTTAAGCCCTTTCTGAGCNTTTCTTGGGGCAGACTTTGGATGAACC

Table 1

753/863

TTTGCCCAGCCTCNCAGCCAGCCTTTCTTTGTCNCACCTTGGCTTTTGGATGGACACCCC
CACCCGGCAAACTGGTTCTGGTNCTCAATATTCAACGGAACCAGNCAAATAGNCCGACCC
CAAAAAGNGTGGGGATTAGGTNCTGGAGNAAGGCTCTTCAACCACCACCATTGGGGCCTT
TGGCCCAGGGGAAACCCATTATTCAAACCAATGGGG
Sequence 5078
GGTGGCGGGAGGAACCGTTACGGGAACTGAAGTTGCGGATTAAGCCTGATCAAGATGACA
ACCTCCCAAAAGCACCGAGACTTCGTGGCAGAGCCCATGGGGGAGAAGCCAGTGGGGAGC
CTGGCTGGGATTGGTGAAGTCCTGGGCAAAGAAAGNCTNGGTNGGAAAAAGGGGGTTTTT
TGGACAAAGGCCCTTATTGTTTGTCNCTTTGGGCCCAGTTTCTGGGTGNCTAANAGAAAA
GNATGATAGACTCTCTTCCGGGNAANTGGGCTGGAAAAGNACACNTTGTTGGNNGCCCAT
ACGGCCCAAGGCAGTCCCCGGGNACCTGCATTTCCGNGGANTGCCCTTTCNGAGTAGGTG
GGTTGGCNGAACGACNCTTTCTTTGGTGNATNGCCTCCTTCTTGGGGTAAAGGCTCTTCA
AATTCCCCCANGCNNCTTCAATCCCAATAGTTTTTTTGCCAAGCTCGTAGTTAAGAGGGN
AACCTTCNCTTNCCCCCCTGGTNCCCCTTCTTAACCGGAAAAGNG
Sequence 5079
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTTTAGTTGGTTGGTTGGTTGGTTTTTGNTTGTTTGTTTCGAGACGG
GGCTCCGGCTCTGCCGNCGGGGGCTGCAGTGCAATGGCNCNATCTCACCTCACTGNGGCC
TNCTGGNCTCAAGCGAATCCTTNCANATGTTGCCCAGGNCTGNAGACAGNCTTTAGAGAA
AGAAGCATNGGGGAGTTCTTCCGAGGACAGACAAGATTTCTGGAGTTTGGAAAGGGTGAG
Sequence 5080
TATCGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGCAAAA
GCACTTGAAGTCATTAAACCAGCTCATATACTGCAAGAGAAAGAAGAACAGCATCAGTTG
GCTGTCACTGCATACCTTAAAAATTCACGAAAAGAGCACCAGCGGATCCTGGCTCGCCGC
CAGACAATTGAGGAGAGAAAAAGAAGCGCCTTGAGAGTCTGAATATTCAGCGTGAGAAAG
AAGAATTGGAACAGAGGGAAGCTGAACTCCAGAAAGTGCGGAAGGCTGAGGAAGAGAGGC
TGCGCCAGGAAGCAAAGGAGAGAGAGAAGGAGCGTATCTTACAAAAAAAAAAAAAAAAAA
AAAAAAAGGTNCATGCTAAGACTTCACCAGTCAAAGCGAACTACTATACTCAATTGATCC
AATAACTTGACCAACGGAACAAGTTACCCTAGGGAT
Sequence 5081
TCGGTGGCCGCGCTCAGGTATGCGCAACTCCCGCAGAAGTCCTCGAAAAGTGTGCGACGG
GGACCCTAAGGCCGACATNGTCCTGTCCTTCTCCCGCGTACCAGACCCGACAGGACCAGN
TGCATCTATAACACCACCTACCTGAATGTTTCAACNGGGGAAAAATNGGGGACCCANTCT
TTCCANGATACCNTTGGNGAAGGGCACAATGNANCCATTTTTCNCTNCANCTTNGTNTTG
ANTCCTTCCAGNGGNACATCCCAANGAACNCTTACCATGGCCTGTGNCTNTTTTGAACGN
TGNAAACCGTAATGNATGTANANCAANCCTGGGGGGGGCCTTGTACTGGTACTTATTGCT
TGGACCAAANGCNCCANTAAGGACCNTACCTCAATANNGTAAGTCCANACCTTGGGGGAA
AGTANGGNTTTCTTAACCGNAAAANGCCTTNCTTCCGGAACCTT
Sequence 5082
AGGTACTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCATTGGG
GGCNCTTTTATTTNCAGCCAAGGAAAAAANAAANCTANCNTNTATTNAAAANGGNAAAGC
NTGTTTGTATNAAANCAAATATTNCATCATCACTTATTTTCTATNCNGTTGGAANCTAAG
TTTNACATTTTTCATTTNCAACANANATTTGAATTTNAANGNCCCAAAAATATAAANAAN
ANGGCNTTAAAANGNCCTATNTGTNGGCAGCCCTNCCCTGAAAACTTT
Sequence 5083
AGGTACAGCCACCCCTCTGCAACCCGAAGAGACAGGGAAGGGTATATACAATGAAACCCC
TTATATACAACTTCTGTTACTCGCATTCCAGACTGCTACAGCTTTGTGTCACTTCAGANA
GCAAATCCTTTTAAAAAACAGATGGTNAAAGANAAAATGAGAAAGACTTCCCCAAAAAAA
GGATACTTCCATTCCACTATACTAATGCAGGCTCTTCGGATGGGGTTATTGAGTGATAAA
CAGAAAAGGGCGCGGGCAGGTCGGCTGTTGGACGAAGTTACCCTGTTTTTTGCTCTTGGC
GTATTGCTGACGTTTTCTTTGGGAGAGAGATCCTACAGGTGGGGGGTGCAGAGGTGCTCA
TAGTTTGGGCAGCCTTGGCCTGTCTAGCAGCATCGATTGTAGCTTGCCAAGACAGGACAG
TTTGCTTGGAGCTATGCCGCTGAAGAAGTTGGTCCTTCACCAGAAAGAGGAAGTCTGGTG
CCTCTTGCATAAGTTTGCCTCTGGGGAGAAGGAGAAAAACAAAAATTTTTTTTTTAAATG
AGGATCCAATGGGTAGGAGAAA
Sequence 5084
CCGCGGTGGCGGCCCGCCCGGGCAGGTACATTAAATAATAACAGAAACCAAGAGTTTGTT

Table 1

TCTAGTAGTAGAAGTATAAGTGGAGAGAGTGCTACATCAGAGAGTGAATTTACCTTAGGG
GGTGACGACAGTGGTGTGTCAATGAACCCAGCTAGGAGTGCACTTGCACTGTTGGCCATG
GCCCAATCTGGGGATGCAGTCAGTGTCAAGATTGAAGAAGAAAACCAAGATTTAATGCAT
TTTAACCTTCAAAAGAAAAGAGCTAAAGGAAAAGGGCAAGTTAAAGAGGAAGACAACAGT
AATCAGAAACAGCTGAAAAGACCTGCCCAAGGCAAACGCCAGAATCCAAGGGGAACAGAT
ATTTACTTACCGTATACTCCTCCTTCCTCAGAAAGCTGCCATGATGGTTATCAGCATCAA
GAAAAAATGAGACAGAAGATCAAAGAGGTGGAGGAAAAACAACCGGAAGTCAAAACAGGA
TTTATTGCTTCTTTCTTAGATTTTCTGAAATCCGGGCCCAAGCAGCAGTTTTCCACTCTT
GCTGGACCTCGGC

Sequence 5085

CGCGGTGGCGGCCCGAGGTACTTTTTTTTTCTTTTTTTTTTTTTTTTCTTTGNCTGTGTT
TGTTTGTTGGTTGGTTGGTTGGTTTTTGTTTGTTTGTTTCGAGACGGGGCTCCGGCTCTG
CCGCCGGGGGCTGCAGTGCAATGGCGCGATCTCACCTCACTGCGGCCTTCTGGGCTCAAG
CGATCCTCCCACTGTGCCCGGCCTGAAGACAGCCTTTAGAGAAAGAAGCAGGGGGAGTTC
TTCCGAGGACAGACAAGATTTCTGGAGTTTGGAAAGGGTGAGAGACTGGGTCAGCGAAGG
GAACATTCCGGTCTTTATGTTGGGATGCAACGTATAGATACCCCGCGTACCTGCCCG

Sequence 5086

CCGGGCAGGTACTGGGCCAAGCACAGTTGGCAGGGCTGGGGCAAGGAATTCTGACAGAAA
CACAACAAGGGTTAATGGTAGCCAGCCCTGCTCAGACCCTCAATGACACGCTGGATGACA
TCATGGCAGCAGTCAGTGGAAGAGCATCTGCAATGTCAAACACTCCTACCCACAGTATTG
CTGCATCCATTTCCCAACCTCAGACTCCAACTCCAAGTCCTATCATCTCTCCTTCAGCCA
TGCTTCCTATCTACCCTGCCATTGATATTGATGCACAGACTGAGAGTAATCATGACACGG
CGCTAACACTTGCCTGTGCTGGTGGCCACGAGGAACTGGTACCTCGGC

Sequence 5087

CTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGTGG
TGTCGGGTTCCTGGGCCTGAGGGGCCTGAACTGATCTCACTTGGCTCCGAAAGCCTTTGC
TGTGTTCCCTGCAGCCCCTGGCCCCCCAGCCTTGGGGCTCTGGCTCCCCCCGGCGGAATT
GGGGGACTGTTTCCTGACATCCTGGACAAGGGAAGCCCACTAGAGGCTGGAACAGGACCT
CTCCAGCCTCCTCACCAGCACCGTGCCCATCTCAACTGGACTTCCCGCCCTCCTTCTCCA
CCTCCTAGTGCCCGTGGCCGGGGATTCAAAGCCGTGTGTGTGTGTGTGTGTGTGCGTG
TGTGTGTGTGTAGTGGGTGTGCGTGTGGGTGTGGGTT

Sequence 5088

GAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTGTTTTTT
TTTGAGGTCANGAGTTTCGAGACCAGCCCAGCCAATATGGTGAGCCCTCCTCTCTACTAC
AAATAAAAAAAATTAGCTGGGTGTGGTGGCATGTGCATGTAGTCCTAGCTACTCAGGAGG
CTGAGGCAGGAGAATCACTTGAACCAGGGAGGCGGAGGTTGCAGTGAGCTGAGATCACGC
CACTGCACTCCAGCCTGGACAAGAGAGCGAGACCCTGTCTCAAAATAATGATGATGATAA
TAATAATAATAATAATAATTCTGATCTGTCATAAATCTTGTCTTTTCCTTAAAGAGCATG
AAAAAAATGTTTCCCATGCTAGATGGAAATTGCAAACTCTTTCGCTGAAAATAATCAACG
CAACGCAATTTCCCGTTTCCACCACCTGGTCTTGGAAGA

Sequence 5089

ACCGCGGTGGCGGCCGAGGTACTTCTGCAGGATGAAGGACTTCAGCTCATCCTTTTGGGG
GCCTCTGAGGCGTCTGGGCAGGTCCTGCAGAGAGGGGAGGCCTGGTCTAGGCCCAAGGGC
ACCAGCAGGGGAAACAGATGGGGATAGGTAGGGGTTGGGGCTTAACACCAAGGTGGAATG
TAGCTGAGGCTACATGGTAGAGGGTGCTGGGAAAAGATACCTGGTTGGGGCCCTCCCAGG
CTGCAGGCCCCTCTTCCTTTCCCTCTACCAGCATCTGCACAGCTTCTTCCAAGTCCCCCC
GAGCTTTGGCCAGCACCCACTGGGCCTGCTCCACCGAACAGGTAGGGAACACCTCCAGGA
GTACCTCAGTCCACATCTCCTTCACGTTCTCCAGCACCATGTTGCAGTGCCTATCGAAGG
CCTTCACGCGGCCCAGGAGTTTCTTATTGTTGCGGCAGTTGATGAGCACTTGGGTATTGT
TCTTGACTGACTGTGTGAGCACANANAGTGGACCCGGTGTTAAAATTC

Sequence 5090

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGG
AGACGGAGTCTCACCCTTGTTGCCCAGACTGCAGTGCAATGGCCCAATCTCGGCTCACTG
CAGCCTNTGCCTCCCAGGTTCAGGCGATTCTCCTGCCTCANCCTCCCGAATAGCTGGGAA
TACAGGCATGTGCCACCATGCTCGGCTCATTTTGTATTTTTAGTANAGACAGGGTTTCGT
CATGTTGGCCCGGCTGGTCTCGAACTCCCGACGTCTGGTGATCCACCTCCCAAAGTGCCG
GGATTACAGGCATGAGCCACTGCGCCTGGCCCTATATAGACTTTTTAATGTGACTTTGTC

Table 1

AAAACAGATATTCCCAACTTTATTATTAGAATTGAGAATGCAAGCATTACTTAGTAGGAA
AAATATTTTGCTTGAATTCCCAATGATTTGTGGATATAAATTCTACTAAATCATGTACCT
Sequence 5091
CCGCGGTGGCGGCCGCCCGGGCAGGTACCTTGATGGCTGTTTGTGGTCATACACTCCGTG
GACCAGTCTTGAGGGATCACAGGGCCAACCAGCTCAGCAAACCTCTCCAGAGGACAGCTG
GGACTGCCCCGCGTACGCGGGGAAATTGAGTCCTTCTATGAAGGAGAAGACTTTTCTGAG
ACCCTGACTCGGGCCAAATTTGAAGAGCTCAACATGGATCTGTTCCGGTCTACTATGAAG
CCCGTCCAGAAAGTGTTGGAAGATTCTGATTTGAAGAAGTCTGATATTGATGAAATTGTT
CTTGTTGGTGGCTCGACTCGAATTCCAAAGATTCAGCAACTGGTTAAAGAGTTCTTCAAT
GGCAAGGAACCATCCCGTGGCATAAACCCAGATGAAGCTGTAGCGTATGGTGCTGCTGTC
CAGGCTGGTGTGCTCTCTGGTGATCAAGATACAGGTGACCTGGTACCT
Sequence 5092
CCGCGGTGGCGGCCGAGGTACGCGGGGGCACAAGCTGTAACATGGCGGCAGCGACTGCGG
CCTGAACTCTAGGGAGCCGGGTTGATTTTTAAAGCTTCAAAATCCTAAGACTCAGCACTG
TTGCGGGGAGCACAGGGATCAGTTGTCCTTGTTTTTTTTTGGTCTTTTCTTCATTTGAAG
ATTAAGTATTGGAGCCATGGGAATAAAGGTTCAACGTCCTCGATGTTTTTTTGACATTGC
CATTAACAATCAACCTGCTGGAAGAGTTGTCTTTGAATTATTTTCTGATGTGTGCCCCAA
AACATGCGAGAACTTTCGTTGTCTTTGTACCTGCCCG
Sequence 5093
CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTACAGTTTTTGATA
TGCTTTATTTTGGGTATGTAGTTTACAAAATATAAAGGAAATATAAGGAGTGTTCTCTTT
TTTTTTAAATAAAAAGTGTATTTTTAACTGGGCATGGTGGCTCACTCCTGTAACCCCAGC
ACTGTGGGAGGCTGAGGCTGGTGAATCGCCTGAGTCCAGGAGTTTGAGACCAGCCTGGGC
AACAAGGTGAAACCCTGTTTCTATCAAAAAAAAAAAAAAAAAAAAGGAAAAAAATAAGTC
AGGCATGGTGGTATGCACCTGTGGTCTCAGCCTCCTAAGTAGCTGGTATTACAGGAGTGT
GCCATTAGCCCGGCTAATTTTTGTATTTTTAAGTAGANATGGATTTTCATTGGGTTGGCC
ATGCTGGTCTTGAACTCCTGACCTCGAGTGATCCTCCTGCCTTGGCCTCCCAAAAGTACC
TCGGCCCGCTCTANAACTAGNNGGATCCCCCGGGCTGCAAGGAATTTNATATCAACTTAT
TNGATACCCGNCNACCNTNANGGGGGGGNCCCGGNACCCAACTTTTG
Sequence 5094
CGCGGTGGCGGCCCGAGGTACATACCCCATGGCCCGTTACATTAATATGCAACTGAAAAT
CCAGAACAGAGAACTTGGGAAAAACAATAATAACTTTAGTATAAGCCTCTCAGCTGACAA
TGACCCAAGGACTGTTCAGCGGCCCAGGCACCTGAGGAGCAATGACAGTCTACGAGGACA
TCTTCTGCAGCAACAGCCATCAGGAGACCAGCAGCAGCACAGCACTCAGGGCTCGGTGTC
CACCTCCCTGCAGATCACTTTCTCCCTCACTGGAATCAACCGCAGCACTTGGAGTCTACT
CATGGAGTAGAAACTTCTTTATGGGGTCTGGCAGAGGCAGCGAANGAATCAGATGAAGCC
GGTGTTTGCCAAGAGCTCTTNTNACAAGCCACACGGCACAGACACAAGCAAGGTTCTGGG
AACACTTCTGGCCTNTTTAAAGACCTGCAAGGGCTCAGGGGCCACTTTTNTTNTTNCTCT
CGACTCTGGGCCCAACGATTNCCACTTTACTAAGATTCANGGTGGCTTCCAAATTTTCCA
ACCNGCTTACCAAAGNTTGCTTAAAAGCCGNGGGGCAAAANAANATTCCTTGACCCNCCA
AAAGGGGCCCCTGTAAAATCCTTNTGGGTTTGCCGGGNCNTTGGCATTNNAAGTTAGGGT
TCCNNCCCCCCCNGAAGGGCCACCCGAAACCCTTGGAGGTTGGGGTAGGCTTCCCTTTTT
TAACCTGCCCNGGGNGGCNNAGGGNNTTNNNTTNCTTTTTTTTTTNTTTTNGGGAAAAAA
NG
Sequence 5095
AACCCGNGTCTTCTCAGCTCCGGGTCCTTACACTCAGNGAAGACTNGCCCTACGAAACTT
TGCATTCTTTCATTAGCAATGCNGTGGCTCCTTTTNTTAAGTCCTACATTAGAGAGTCTG
GCAAGGCAGACAGGGATGGTGATAAAATGGCTCCTTCANTTGAAAAGAANATTGCAGNAA
CTCGAAATGGGACTCCTTCACTTGCATGCAAAATATTGAAATTCCGGAGATCAGCCTGCC
GATTCATCCAATGATCACAAATGTTGCAAAACAGTGTTATGAGCGTGGAGAAAAGCCAAA
AGTTNCAGACTTTGGTGATAAGGTTGAAGACCCAACATTTCTTAATCAGTTACAATCTGG
AGTTAACNCGCTGGATCCGAGAAATTCAA
Sequence 5096
CGNCCGGNCAGGTACTTTTTTTTTTTTTTTTTTTTGANACNGAGNCGCGTTGCTGAACCAA
TGTNAAAGCTTCATTGTTGNATTTGNACATNACAAGAAACTGGATGGCAAACCCATAGTC
ACCAAGCTGTATAAAAA
Sequence 5097

Table 1

CCGGGCAGGTACTTTCTTCATTTCCACCTTTGCCCAAGTCATCTGCTTTTTCATGGACCA
CCAGTGTGCGGCCAATGATGCAATGGTCTCCTGAGAGTGAGATCACAGAATCTTCAATAG
ACACATCGGCCACACCATCTTTGTCAGCAGTCACATTGCCCAAGTCTCCAACATGCCTCT
CTTCATCCTTTGGCCCACCGTGTTTTCTGGATAGAGGATTAAAGTGAGGACCTGCACTGG
TACGCGGGGAGCACTGCCTGGCTCCACGTGCCTCCTGGTTTCAGTATGGCGCTGTCCTGG
GTTCTTACAGTCCTGAGCCTCCTACCTCTGCTGGAAGCCCAGATCCCATTGTGTGCCAAC
CTAGTACCT

Sequence 5098

CCGGGCAGGTACAGGAGCCCTGATAGCCATACTCGCCTGTGTTTTGACATTATTGGTGTT
GATCCTCCTTATCGTCACTATGAGAAGACGGAAAAAAGAGCCCCTTATTTTTGACGAAGA
AAGAGACATCAGAGAAAATATTGTGAGATACCGATGACGAGGGCGGGGGAGAGGAGGACA
CGGAAGCGTTTGACATGGCTGCACTGAGAAACCTCAACGTCATCCGAGACACCAAGACCC
GGAGGGATGTGACTCCAGAAATTCAATTCCTGAGTCGACCAGCTTTTAAAAGCATCCCAG
ATAATGTCATCTTTAGGGAATTTATTTGGGAAAGATTAAAAGAAGCCGA

Sequence 5099

AGGTACGGGAAGGGTATAACCAACATTTTCGGGGTATGGGCTCGATAGCTTATTTAGCTG
ACCTTACTTTAGGATGGGGTGTGATAGGTGGCACCCCGCGTACTGCCAGCTCAGGGCAGC
CAAAAGCATGACAAACGACAGGTAGATGGGGGAGTAGTGGCTTCGGGAAATCAGCCGACA
GTTGGGAAGATTCTGCGTCCGGATGGTGGAGATGATCTGCCTTGTTTTGCTAGAAGATGG
GTCTGAGTCGGGGATTCTATGATAAATCTCTTCCATATACTGATATATGATGGCTTTGAC
AGCTGGCATATTGGTGGCATCCATCATCAGGGTCACTGCTT

Sequence 5100

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTGAAAAACCACTGG
GTTCCGAGTTCATTACTACAGGAAAAACTGTTCTCTTCTGTGGCACAGAGAACCCTGCTT
CAAAGCAGAAGTAGCAGTTCCGGAGTCCAGCTGGCTAAAACTCATCCCAGAGGATAATGG
CAACCCATGCCTTAGAAATCGCTGGGCTGTTTCTTGGTGGTGTTGGAATGGTGGGCACAG
TGGCTGTCACTGTCATGCCTCAGTGGAGAGTGTCGGCCTTCATTGAAAACAACATCGTGG
TTTTTGAAAACTTCTGGGAAGGACTGTGGATGAATTGCGTGAGGCAGGCTAACATCAGGA
TGCAGTGCAAAA

Sequence 5101

CGCCCGGGCAGGTACCGGGATGTGATGCTGGAGACCTACAGCCACCTGCTCTCAGNAGGG
TATCAAGTTCCTAAACCAGAGGTGGTCATGTTGGAGCAAGGAAAGGAACCATGGGCACTG
CAGGGTGAGAGGCCACGTCACANCTGCCCAGGAGAGAAATTATGGGACCATAATCAACAT
AGAAAAATCATCGGTTATAAACCAGCTTCCTCTCAAGATCAAAAAATTTATTCTGGGGAA
AAATCCTATGAGTGTGCTGAATTTGGAAAGAGCTTCACCTGGAAGTCACAGTTCAAGGTA
CCTCGGCCACCT

Sequence 5102

TCCCCGCGGTGGCGGCCGCCCGGGCAGGTACNCGGGGAGAGCATGCTTTTTCCTGTTTGG
CTGGGAAAGGGAAGGCTGAACTGCTGAGTCTGACACTTAACAGGACTTCGGCCTTCCCCT
GAATACAGACTAGATCANAGATTTTATTTTTTTAATTGAAAAAGNNACTNGGGTNTCTTC
TTTAGAAACCCTAATTTGGTGTGCNCATCTTGGCTATTTTCACANAAGATGNTCATCTTN
TGCAAANGAAGTCCGGAGTTGATTTCTTNCCTCAGACAAGCTATTGGTTGTTGGTGGGCA
ACAGAAGTTGCTCAGCATAGACAGGGG

Sequence 5103

GCGGCCGCCCGGGCAGTGNACTTATAAGCAGNNCAGACAACCAGAAGTNNCNTNACNAAC
CNGAAAAACANNGNGCANGACCGACTACCCTAGCCNNGCCNGGACCGAGGGACGCAAGAG
AGNCCAAGCGGAGGAAAANACAGACCGCAAACAAGGGCGNGGNNCCCCCACACGGCCCAG
AANCACNNGAAGCAGAAGGGAGCANCCAGGGCCAGGAGAGGGGCNCGCAAAACCCANAAC
CNCNGAGGGGAAGGCNANCNGGCNGANACNGAGCAGAAACAGAANGANCCGGGAGCNNNG
CNNGCCANCGAAGGCNAAAGACGGGAAAAGGGGGGAACCGGGCAAAAGGCCGCCCNAACA
GGAGCGNACCCANGCANCCCNNGGACCAACCAGAGAGAGGGAAACCAAGGCCCAAAAACC
ACCCAGGGGAAGGCCCNCCAAAAAAAAAAAAAAAAAA

Sequence 5104

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGGGGCTGGTTCAGGGTCTGAAA
CANAGTTTGGGGCTTGTTNGGGATTAGTGAAGCTACTGCCTTTGCCGCCAGCGCAGCCTC
AGAGTTTGATTATTTGCAATGTCAGGCTTTGAAAACTTTAAACACGGANTTTNTTACCAG
ACAAGTTACAAGCATCTATGATCANGTCACAGCAGNCCTATGATTATGGAGGAAGTGGAG

Table 1

GACCCTATANCAAACAGTATGCTGGCTATGACTATTCNCANCAAAGGCAAGATTTNTCCC
TCCANACATGATGCANCCACAACAGCCATACACCCGGNCANATTTACCAGCCAACNTCAT
NGCTTTNTACTTCCANCTTTCACCCTNAGCCCTTTTCTA
Sequence 5105
NGNAAAACACAAAGAAGCANGGTCTGTGAATAATGAGCCATANCNCACAAAAAATGGCCA
CAGGAATCCTATANAAAACAACTACAGGGGACNNNAGACCNCCATTCACCACCCNCGGCC
TTAAGANACGAAGCCCTGACATGACCACANCCCAGCCAGC
Sequence 5106
NNCCCACNCCCNGGGGGGGGNCNNNAAAACCCCCAAACNNCCCACNGGAAGGGGGCCAAG
CCCNNCCCCNGGAAACNGGGGGNGGGGGAACCCAAAGGGGCCANGNNNAAAGGGGGGNGG
NGCGGGGGNNNGGGAAANNGGGCNGGGNCCCGCCCNCCNNANAAAAACCNAAAGGNGGGG
GAAACCCCCCCCCNGGGGGCCGGGGCAAGGGGGAAAANNNCCGGAANNAANNCAAAAGNC
CCNNNAANANNGGAAAANCCCCGGNNGNCGAAAACCCCCANNAAAGGGGGGGGNGGGGGG
GGGCCCCCCGGGGGGGNNCNCCNCAAAAANNNNANANGGGGNGACCCCCCNCNAAANNNG
GGGNGGGGGGGANAAAAANNNNGGCCCCCCCCCCNNNGGGGGGGNGAGAAAAANNNCANA
GGGGGGANAAAAGANGGGCNGGGGNCC
Sequence 5107
AACTTNCTTTTTTTTTTTTTTTTTTTTTTTACGCCATTTTTTTNCCGGGTCGGGAGNGGG
TAATTTGCGCNCCTGCTGCCTTCCTTGGANGNGGTAGCCGTTTCTCAGGCTCCCTCTCCG
GAATCNAACCCTGATTCCCCGTCACCCGNGGTNACCATGGNNGGCACGGCAACTACCATC
AAAAGNNGATAGGGCAAGACGTTCNAANGGGTCGTCNCCGCCACCCCGNGNACCTGCCCG
GGC
Sequence 5108
NCCCCGGCCGCCCGGGCAGGNACTCTAGGGGAGCNCTGTNAACCAAAGGAGGGGCATAAA
CCGGNCCAGNCCNCCAANNCCGGGAAGNGGCCANGACANCAGAAAAGNGGGCACNGCNNC
AGGAAAAGAAANNGGGGCNCNANNACAACAGGGNGCGAGAACAGGGGGAAAAAAAAGGGG
GGACCAAAANGGGAAAAAGAGGAACNNCNGAGGGACANAAAGAAGACCCNAAAACCGANG
GCNACNAAAAAAGCAAGAGCANACCNGGGNAAGACCAAAANNNNCNCCCCNCCCCCNAAA
AGAGGGNNNNAGAGACNACACCAGAANAAAAGACAGNNNGAGGGGGACCNCNGNAGAACA
ACAAGGGNCNNANNGNGGGGAACNAAAANAANNCAAGAACCAAACAGAGAGCCACCCGGC
CG
Sequence 5109
GGCGGCCGCCCGGGCAGGTACNCAGGACAGAGNTNTACNACCCGAGTGNNTGCCACACCG
ACCAGAGNNNGGAGCAGCAGGCGTGCCAGCNGGAGGGGGCCGCACCATNGCCAANANCCN
GGAGGCCANNGGGCNGNCNACACAAGACCNGCCNCAGAAACAGGCNGGGGAACCGGGAAA
GGGGGACCGGACCACCACNGNGGNGAAANGAGGAAANGGGAAAGCCCNGGGGGGCANGCA
ANAAACCACCACCNGAACAAGAAAGGCAAACAAAAAGGAAAAGGCGAAGCANGGAACNNN
AGCNGGAGGGGGAAAAAAGGNGGGAAGCCCAAACCCCCAAACNGGCAANGNCCGGNAGGG
AGGGAAGACAAACGGCCCCCCNGGGNGNANACCAACCCCANAAANCCCCCCGCAAGGGGC
CCCCC
Sequence 5110
GGACTGAGTCTTAAGCGTNTTACCACCCCGAGGGNTGAAAANCCGCNANGAGCNNNNGGG
AAGGGGGNGCTGAAACCCGGGGACAGAGGACGCACGACAGACNAGGAGGGAGCCGGGAGG
ANGGGCNGCAGCNGCGGAGGAGGGGCNCAAAAGAAGAGAGGCCGGAGAGCANAGGCCNGA
GAAGCCANAGGCAGGNGGAGAGAGGGCGGAAAGNGAGCANCGGGCNGGGCNGGAGCCGCA
CACGCGCNCCNCCCAAGGAAAAAAGCACCNNCAGAAAAAANACACAAGGCCCCAAACCAC
AAAAAAAAAAGAAAAAAGGAANAAAANAAAGGACCCNCGGCCGCNCCAAGAACCANGGGG
AAAACCCCCCGGGGCCGCAGGAAANACCGAANAANCAAAGCCCNAACGGAAACCCCGNCC
NACCCCCGAAAGGGGGGGGC
Sequence 5111
TACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGTTTGGGAGCCTGAGC
TGGAACTGAAGCTGGGGCTGCAGCCTGGGCCTTGGTTTGATCCTTGGCCTTGGCCTTGGC
CTTGGCCTTGGCCTTTGGCCGGCACAGCCTGAGCCCCTTGGCAATACGGGCACGAGCACC
GCTTTNCAAAGCTTGGGGGTGGGCAAATGTAAGGCAAGTTCGATCCGAGCTTGCGGCTGA
CACCCTTTGGGATCTTTGGGCTTAACCTCCTTGGGCTTTACAGAGGGCNCTTGATAGCCT
CGGCACCGTGCACTCATGGCCTTGGCATTTGTTGGGCNCTGCCATCTTTCTTTAGGGNCC
TTTTTGGTTGTGGCTTCTTGGCCAAAGCGCATTGTTTCCTAAAGGAAACTTTGGGGGGTC

Table 1

CACCCCCTTAA
Sequence 5112
CCGCGGTGGCGGCCGAGGTACTGAAAGAGCCCAACACAATTACCCTGTAAACTCTCTGTT
AGGGCAACCACCACCACCTGTCTTCCAGGACACATTTTTAGATACTCTGACAGGCCACTG
CATCTNANATTCAGGGGAGAAAATAAGTTGTCACCTCCCCTTTCAAAGNTTCCAGAAGTA
AACAAAATGGTGCCATCATTCAAGGATAACGTGCTTGATCACCCTCCTCCCAAAAAGCAA
GAGCTTGTTTATGGTTGAGGAANTCGGCCGGATTGTCTGAATGACACATATTACAGAGCC
CCCACGGGATTTCTTGCACCACTCTTGGGTTCTGNGCTTGGTGGGAACATTTGCNCAATA
CAGTTCTTTAATGGAGGCACNCTGNTGTTGTAAATANCATGCCTTGGTCT
Sequence 5113
GGGCANGTACATGTTGTGGGTGCCGCTCCGGGANTTATAGCGCANCCAAATCCCGAAGTT
CTTCACCCGCAGGGGGGACTTCTCAAACACCTGCCCACAGTACGACAATCTCCCCTGAAG
ACTTCTTCATCTTCTTTAACTGANATTCNAAANGTTCNGCGGGGAGTGAACTTGAGGGCC
ACCCTGGGAGGAAGCCCNACTAGGCGAATTCACTTACTGACCGGCCTGGGCTGCTCTGAG
ACATGGAAGGAAGCCAGTGAAGGTGGAGGAAATGATCGTGTGCTGGAAACCTTGCAAAGA
TGAGGTGGACTGGGAGTTAAGAAATATTTATTGACCCCCAAGAATGTTGTAAGCCGGNAT
CCTGNCCCGGGGGGGGAAAAACTT
Sequence 5114
GGAGCTCCACCGCGGNGGCGGCCGAGGTACAAACCTCCAGCTCACTCANATAAAGGAACA
TGAACGACCTATNCACAGAAATGCCTTTGTTTGGCCAGCCACGGTGGATCATGCCTGTAA
TTCCAACAATGTCGGAGGCAGCTGTGGGCGGATCATCTGAGGTCGGGAAGTTTGAGAACC
AGCATTGACCAATATGGACAAACCCTGTCTTTACTAAGAAATACAAANCTAGCCAGGCAT
GGNGCTGCATGCCTATAATNCCAGCTACTTTGGGAGGCTGAGGCAGGAGAATNGCTAGAA
CCCAGNGAGGTTGGAAGGNTGCTGTGCAGCCCGAGATNCGCACCATTGCACCTCCAGGNC
TGGGCAACNAAGGA
Sequence 5115
TANGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAGAGAAGT
TTCCGGGACTGTCCCNACGACAGTCCGGTTTGTAGATTCCCTGATCTGCAATTCTTCCCG
TTCCTTCATGGATTTGAAGGCTCTCCTTTCTTCCTTGAATGACTTTGCATCCCTCTCGTT
TTGCTTGAANANGTTGGGGACAAATGTTNGGATTACCTGGGTGGGAACCANAGCCCACCA
CCATACTTGTAAATACACTCTTCCTGACCAATGACCTGACTGAGGNAAGTGATGGAGGNA
GGTGCTGCAAAAGTAAGGCAGACCTCATTCTCTTCCTACCATCCGCCTNATCTTCCG
Sequence 5116
AGGTACTCCATCGGGATCTTTTTCACCTACGCACTCCAGTTCTACGTCCCGGCTGAGATC
ATCATCCCCTTCTTTGTGTCCCGAGCGCCCGAGCACTGTGAGTTAGTGGTGGACCTGTTT
GTGCGCACAGTGCTGGTCTGCCTGACATGCATCTTGGCCATCCTCATCCCCCGCCTGGAC
CTGGTCATCTCCCTGGTGGGCTCCGTGAGCAGCAGCGCCCTGGCCCTCATCATCCCACCG
CTCCTGGAGGTCACCACCTTCTACTCAGAGGGCATGGGCCCCCTCACCATCTTTAAGGAC
GCCCTGATCAGCATCCTGGGCCTTCGNTGGGGCTTTGGTGGTTGGGGACCTAATTGAAGG
Sequence 5117
AGGTACTTTTTTTTTTTTTTTTTTTTTTGCTTNCCATNNTNNTTAGCACAAAGTATAAAC
TCTTTCACAAATACAAAAATTAACCAGGCATGGNGGTGCATGCCTGTAATCCCAACTACC
CGGGAGGCCGAGACGAGAATAGTTTGAACCTTNGGGAACGGTNGGAGGCTTGCTAGTGGA
GCCAAGATCGTGGCCACATATACTCCAGTACTGGGCAACAGAGCCGGAGACTCCATCTTA
AAATACAAAACAANAACANGAAAAACTTCTTNCAGGGCTTTTCCTGCATGG
Sequence 5118
CGGCGAATTGTTTCTCNNCAAANGGCNGCGGCCGCCCGGGCANNGTACTTATCCGTAACT
NTTNTNNCCCCTGCGNTTTTGTAACATCCCTCCAGGCAAACAGCAGCNGAAAGGCTGTCA
ACTGCTGNGNGTTAAGGNGCTTCTTCTGCTTCCTATAGAGTTCAAGGTAGGACTCATCNG
CGAAAGAAAGGGTTTNGANGAAATTNCCTTGGAGGCANGAATGTCCNCTGNTCCGATGNC
ACACCACCTGCAGCTGCACGGGCTGCCCGNTGCCGCGCTCCCACATATCNAGCCTCAATT
TTNGGGCNTAGNATATAATAAGCAGNGTAAATGGGGGTNGNGCATNCCGGGGCCGTAAGC
CNGAGCATTNTCANTCCGGGCCAGAGGGCCGTANCTCTTCNCAAATCAACACCAANCTNG
AANATTGCCTTGGGT
Sequence 5119
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGACCTATGAGCAGAGGAAAATCGTGG
AGTTCACCTGCCACACAGCCTTCTTCGTCAGTATCGTGGTGGTGCAGTGGGCCGACTTGG

Table 1

TCATCTGTAAGACCAGGAGGAATTCGGTCTTCCAGCAGGGGATNAAAGAACAAGATCTTG
GATATTTTGGCCTCTTTGAAGAGACAGCCCTGGCTGCTTTCCTTTCCTACTGCCCTGGAA
TGGGTGTTGCTCTTAGGATGTATCCCCTCAAACCTACCCTGGTGGTTCTGTGCCCTTCCC
CCTACTCTCTTCTCATCTTCGTATATTGAACNAAANTCNGGAAAACCTTCATTCATCANG
GGCGACCGCCCCTGGGCCGGCCTGGGGTTGGGAANAAANGGA
Sequence 5120
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCACGGTACTTTTTTTTT
TTTTTTTTTTTTTTTTTTTGNGGCTTATTCAGTCNCTTTATTAATAAAAGAGATCAATTA
AGCTTTCCTNTCCCCACCCACCCCGGAGGTGCCGGGCTTTGAATNCTCGGGAGGAAAAAA
NGGCCAGGGNTGNAAGCTTCCTNCCCCAAGTTTCCAGGAGCACCTTGCCACCAAGCCTTG
AACACCT
Sequence 5121
TCCGGCGAATTGGNNCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACNCGGGGAGCGTCA
TAAACTTTGAGTGCTTTAAAACCGCAGGTAACGATGGGAAAGGAACTCCTGTATTCACAG
GGGAGGTTGACTGCACCTACTTCTTCACATGGGACACGGAATACGCCTGTGTTAAGGANA
AAGGAANNACCTCNTNTTGCGGGTGGCCACCCGACGGGAAGAAGCGCTATGACCTGTCCG
CGCTGGTCCGCCATGCAGNAACCAGAGCAGAATTGGGAAGCTGTGGGATTGGCAGTCAGC
ACNGGAAACAGAGAAANGAAGCATTTTTTTCATTTAATTATTTTGTTCACCACNAAGNTG
CNTGCATGGGAAAGGGCANAGGGCACCGAGGGGTTGTTTCCCGAGGGACCGCCGGCAATT
NGTGTTGGCAAGATGGGNATTAAAAAAAAT
Sequence 5122
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAAGTCCCA
GTCCTTCCGCAGTTCTAGGTTTACAGTCAGGCTCAACCTTACTTGCCCCGCTCCTGCATG
AAAACAAGTGCGTTTTATACAGCCTCTGCCACCCAGTGGCATAGTTTAAGGCTCTATATT
ATATTTTNAAAATNAANGGTTTTTTTTCCTATCATTACCACATCAATTTGGAACCTGCTG
GTGACTCTTCTACCACANGAGGGTAAATAAAAAGACCAGTTTTTAAAGTAAGAGGATTTC
AGCTCATCTTATTAAANAGTATAATAAGTTTTCGGCCCAGTACGTCCATTAACATTCTGT
TTTAAAATTAGTATACAGGACACCAAATGCCNAAAATATTAGGAATCATAAAATGTTAAT
TTTTGGGAGGATA
Sequence 5123
CCGGGCAGGTACTTCTCCTCCATCTCAGCATAGTGNNGGTCTTTCACTTTACGCTTGTCG
CTCTTCCCATCATCCTCGCCGGAGCCATAGTCCAGGGGTGGGGGCTCATCCATGTCATTC
TTCCGCTGGTAGTTTCGATACATAACCNAAATNGGAAGATTTCCAGCTTGAAGCTCCTTG
GCCCAGGAGCAGTGCCAGTAGGATAGTCCTACCCACTTGACAAAGAACTCTCGCTCTGAT
CTGCCTTGAAGAGGACGGGGGGGTTGGGGACATCTTGGATTTCCATCTGCCNTGTTGAGG
GGGCTGGCACTGCATACAAGGTTGGGCTCCCCCCACCGCCCAATGTAAGGGATCTTTCTG
CACTTCCGACCCTTCAG
Sequence 5124
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAAGGCAACATACTGTAGGG
TTCTGTTTATATGAAATATCCAGAGTAGGCAAATCCATAGAGACAGAAGACAGACTAGAG
ATTGCCAGAGGGTGGGAGGAGGAATGAGTAACTGCTTAATGGGGATGGAGTTTCCTCTGG
GATGATTAAAAAATGTCCTGGGACTAGATAGTGGGTAATGGCTGCACAAAGTTATGAAGA
CACTTAACATCACTAATGATAAATCTGACGTTNTGCATACGTCACCACAGTAAACATACC
CNTGCAGTGGAATANGTTTCTGAGACCCATTTATTAGGTCACACCAGCAAAATTAGTAAA
GATTTAAAAAGGAAAAAATTGNATTTCTCAGNACAAGGGTGCCTGGAATAG
Sequence 5125
CCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTNCTTTTTTTTTTTTTCTTTTTTTTTTT
TTTTTTTCACATTGGGGGCNCTTTTNTTTNCNGCCANGGAAAAAAGAAANCTANCNTNTT
TTTAAAANGGGAAAGCTTNTTTGTNTGAAANCAAATATTTCATNATCNCNTTATTTTTCT
TNTCCTGGGGGGNANCTAAGTTTTTACNTTTTTNATTTNCAACACNANATTTNGANTTTN
AATGTCCCANAAATTTAAANAANANGGCNTTAAAATGGNCCTATNTGTNGGCNGTCCTNC
CCTGAAAACTTTTTTGGCTATATCTTTGGNTCTGNGCTACAGTCTTCGCAGAGAACTAAA
TTAGGGGACNNGGCCNNCAGTAAANAAAAATTNGNCCCTNCCNGGCTAAAAANGGGG
Sequence 5126
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTT
TTTTTTTTTGATGTCATTTTGTGTAAGGGCGCANACTGCTGCNAACAGAGTGGTGATAGC
GCCTAAGCATAGTGTTAGAGTTTGGATTANTGGGCTATTTTCTGCTAGGGGGTGGAANCN

Table 1

GATTNATTAAANAAAANATTCCTGC
Sequence 5127
TCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCACAATAGCAGGGGGATGCCGATGGAGGG
AAGGGTCATGACCCCAAAGGCTGCCCAGTCCAGAAAATGAGGGGAGAATCGCCTGTCAAA
CTCCCGCTGAGCCAGGATTCCTCCCTGTCCAGGTGCACTGGTAGAGCCAATCACAACGGG
CCCATCCTCCTGGGCCAGGTAAGTAATTGTTGCCGAGGTGAAGTTGACCCGCGTACCTCG
GCCGCCCGGGCAGGTACGGCCAGGGCTATTGGTTGAATGAGTAGGCTGATGGTTTCGATA
ATAACTAGTATGGGGATAAGGGGTNNNNGGTGTGCCTTTGTGGTAAGAAGTGGGCTAGG
Sequence 5128
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGGAGGTGGGGC
CCTTGGGATTAGTGTCCTAAAAAGAGACACAGCGAGCTCCCTCACTCCTTCCACCATGTG
AGGACGCAGTGAGAAAACAGCTATCTACAAACCTGGAAGCAGACCCTCACCAGACACCAA
AACTGCTGGGTGCCTTGGTCTTGAACTTCCCAGTCTCCAGAACTGTGAGAAATAAATTTT
TGTTGTTTATAAGCCACCCAGTTTACGGTATTTTGTTATAGCAGCCCAAATAGACCAAGA
CAATACCCAATATATACTTACTGACTGATGCTGCTTGAGCAACCAGCACAGCTTATGGTT
CCTAAGGGCCTANCACAGTGCCTGGTACCTTCGGCCGCT
Sequence 5129
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGCACATTTCTGGACTAC
AAAGGCATTTCTTCCTGCAATGACGAAGAATAACCATGGCCATATTGTCACTGTGGCTTC
GGCAGCTGGACATGTCTCGGTCCCCTTCTTACTGGCTTACTGTTCAAGCAAGTTTGCTGC
TGTTGGATTTCATAAAACTTTGACAGATGAACTGGCTGCCTTACAAATAACTGGAGTCAA
AACAACATGTCTGTGTCCTAATTTCGTAAACACTGGCTTCATCAAAAATCCAAGTACGAG
ACATTGCTCACCTACAGTGACCGTCGTGGGCGCGGATGTGCTGGACGAGGTGGTGACTGT
GCTCAGTGACACCTGCGTGGGAACGCAAGAGCTTGCANTGGTGAGAGAGCAGCGCAACCG
TCTNGTGTGACCTTCTGGGGCGTACCTGCCCGGGGCG
Sequence 5130
CAATNCCGAAGCACGTTTTCAAGCTGGCGCAGGACCACGCCAAGGAAGGCGACTTCNTGA
TGGNGCTGGGCTACCCTGGCCGCACCAACCGNCACCGCCTGCCGTCCGAAGTGGGCCTTC
ACCTTCGACTGGAACTATCCGGCCTTNGTGCAAGCCTNGGGCGAGACCCTGGCCATCATC
NACCGCGAGACCAANAACGACC
Sequence 5131
GCGGNGGCGGCCGACNTCGGATGACATGTTACCATGACACAAAACGACAATGACCANGGC
NCCACNCCNNGAATCATNTACCTNTATTACAACCAGACATTTGCACTNAAATAAGGANGT
GCTGCCNTATACTTATCCGNTGCTGGANGCATCATGA
Sequence 5132
CGCCGCGGCGGCGGCCGANGTACATATAATTTGCCTGGCCGGGCACGGNGGCTCACGCTT
GTAATCCCAGCACTTTANGAGGCCGAGGNGGGCGGATAACGANGTCACAAGTTCTAGACC
ANCGTTGCCTACCAAGTTTAGCAATTCCGGGAATGCCAACTGTCCTTACAAGTCACTCTC
GTATTTGCTTAGCTATGAGAATAATTTGGGGCTAACTTCACCAAAAAAGAAAAACAGNGG
AGAACGTCACTCTAGTAACAATAAAAGCCACTGTATTTTGCTTTCATCAAATGTGGCACC
TTGTGAACCACCTTTCTTAAAATTATTTATTTTAACCTTTAA
Sequence 5133
CGGCGAATTGTTTCTCCCNGCGGCGGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTTTTT
TTTNGACNCACANTTNAANNTNATTGCAAGGANACACACAAANGTTGATGTGNAAGGGNC
CTCCCACCATCANCACAANNATNACAGGTCCCATCCTCCTATNTTCTGGAAGTNAAAGAA
GTNCAAACCNGTNTCACTNGCATTCATATNACCCAANGACANGANTGCCNCCCTGTGGGT
AAGGGGCCTANTCAGCAACTTTACCTTCCTAACAAACTTTTATGGTTCAAGANATAACAC
NTAAAGGGGGCAAAAAACATGATGGGAACCACTTTTCTCAATAAAAAACTNNGTNTAGGC
Sequence 5134
CCGCGGTGGCGGCCGAGGTACGCGGGGGCAAAGCGGTTCAGCTGTCTGCTCCCTAGCAGC
CGGCCTTCGGGTCGGGCGTCTCCGCCGGCTACTGCCGCTTCAGTTCTCCCGGTGTGGCCA
CGAGTCGGTAGCCATCCTAATGGATATGGGTTGGTTCCTGTTTTCTATTTGGAACTTTAA
AAAAAATTAAAGCAGGTTGCACTGCTGTGATCCATCCTCATCTCCTAAAGATGCATCCTG
ACTTATCTCCACACTTGCACACTGAAGAATGCAACCGTCTTGATTAACTTGCTTAAGGAA
TGTCACAAAAAATCACAACATTCTGAAATTTTTTTGGTTATTGTAATGATGTTGATCGGG
GAGT
Sequence 5135

Table 1

761/863

TCTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTCTCTTTCATATATTTNAATGTAAGGTAGTTGGCAATGAC
TTTTTTGAANACTGTANACCATTATTTTGTAGTATTTCTNTCAAAGNGAATTGGTCTGTT
CTCATGATGAGGAGTCCATCAATNTTTTGGCCAGGAATACTACATCAGGGATGTTGGGTT
CTTCATTGCTTTCTAAACAGCTTTGTTNTCAAAAACTTGGCGGCTACAAGGAATTAAATG
TGAATGGGAAAGGAAGAAAG

Sequence 5136

CCGCGGTGGCGGCCGAGGTACCCCATTAACTGTGAATGAATCTGAGCTTGGTTTCCTTTA
TTGCTTCCTCTGCAATATGATTGCTGAAACACATTTTAAAAATTCAGAAGCTTGTCACTC
CTGTTAATGGGAGGATCAGTCACACATGTGTAGTACTCTGCTATGGTGCTGGCTTCCTTT
AAACTCAGGATAGATGCCAGGTGGGCTCCGTTTCCGTAAGACTGACACTCGAGCTCGGCA
TCAGACCAGTTCCTCAGCTTCCTGAAGTAACCATAGCAATTGGACTTGTGGTAAAACCAT
CCAGGAGCACAGCTGGGTCTCATGATGATATCACCCAGGACTCCTGTTTTGGCCAGGCAG
CTCAGCAATAGGAGCAGCCGCATGCTTCTGGAAGCCATCTTCCTCCTACCCTGAGGATGT
AGCTAG

Sequence 5137

TAGGGCGAATTGGANCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT
GGAAGTAGAATACAGTTATCAAAACGTTAATTTCTAAGCATTAGCATTATGCAAGAAAAG
AGCTGATAAATGGCAAGGAAGTAATTCATCCATGCATTTATTCATGCAATGACCTTTCAA
CAATTTTCTTTTTTTAATTCTACTCTGGTGCAAGGCCTCACTGATAACTTGGGGGAAGAT
GGCTGNCAAAAAAAAAAAAAGAAGGAAAGGGGAAAGGGAAGGGCAAGCGGAAGAGGAAGA
GGAAGGGGAAGAGGAAGGGGAAGGAAAGAAAAAAAGAAGGAGGGAGGAAGGGGA

Sequence 5138

GGCCTATACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGT
ACGCGGGGGGCATCATGGTTTTTGAAGGCTTTAGTTCTGCTTTCTGCCTCTCCTCCACAG
CCCCAACCTCCCACCCCTGATACATGAACCAATGATTATTTCTTGTTCAAGGGAAGAAAA
ACAATTAA

Sequence 5139

AATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCTGGTACGGGGGAATGGAATGGAATGG
AATGCAATGGAATGGAAGCTTCCGGAATGGAATGGAATGGAGTGGAATGGAATGGAATGG
AATGGAATAAACCCNNTTGCAATGGACTGGAGTGGAATGGAATGGAATGGAATGGAATGG
AATGGAATGGAATCAACTCGATTGCAGTCGAATGGAATGGAATGGAATCAACCCGACTGC
AGGGCAATGGAATGGAATGGAATGCAATGGAATGGATTCAACTTGAATGGAATGGAAAGA
ATGGAATGGAATGGAATGGAATGGAATGGAATGGAATGGAATCAACTCNATTGCAGTCNA
NATGGAATGGAATGGAATTAACCCNAATTGAATGGAATGGGAATGGAAATGGAACGGAAC
CGGAACCGGAACCGGAATGGAATTGGGAATGGAAATGG

Sequence 5140

ATTGGAGCNTCCACCGCGGTGGCGGCCNGANGTACNCTGGGGTAGTAAACTTGGAACCTT
GGAAATGACCAGGCCAAGACTCAAGCCTCCCCAGTTCTACATGACCTTTGTCCTTAGGTG
TTGAGGTCCAGGGAATGCTANGAAAAAGTAAAATCAGCAGNACACATGGTTGTAGACNCA
ATAAGTGTTTTCNTTAAAATGNGTGATAAANTTNTNTTGNTCNCTTCATCTTGGANNATN
CCTTGNGTGNGAAGTTACCNTGGACNNCATTGCTCATGNGNAGNACANTTATTNCAACTT
TCAAATTTTTCNTTNTTGNANCGGACTACCATTAATAAGNNAATTGGGGGGTTGGTNCCT
TGATCGATATNAATCTTTGATGGGNGNATTACCANGNAANCANNGNAAAATGNAANGGGG
GTTGTGAGAAATNCTCTACTAACTTGGTTGAAGGAAGNTTGNNNAGNAAGNTTGTNACNA
NTTGATGGCNTTGNGTAACAACCNTGGTTCCCAATTGAAAAGCCNACNTTGAAANNCAAA
GAAAANGNCTTGGGAAGGNGGCCATCCAAANCCTGTNCAACNCTATNTAACNAACTTACT
ACCANGCNAAAAGNGGAANTGGGGAATNGNCTTTGNTAAATAAAACCAATTAAAACCCCC
CACCT

Sequence 5141

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTT
TTTTTTACGTAGGGACGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCT
CAAGTGGTCTGCCACCTCGGCCTCCCAAAGCACTGGGATTACAGGCATGAGCCACCNTGC
CCGGCGCATCNTNTNATTTTATATTCTTACTTTCANGTTTCTTATTCCATTCAGGCCTAA
GCTGGAAACACCACTTGTCTTGATAAAACACTGGCCACACCAACGACATGGTNGGCCAGG
GGGTGATAGCAATNTTCCAGTAAATCAGCTTTTCAGTCTAAACATACCAGTCATCCTACT

Table 1

TGAAAGAAATGTGTCCCTGGGGACAACCTGTGAGCCTTAGCCTTCTGTAGGGAGAAGCNC
TCTTGATGGGAGGAAAAT
Sequence 5142
CCGGGCAGGTACACCATCCCTTCCATTGGACTGGCTTTGTTGGAAGAAAAGCTCAGATAT
AGCAATGAGAAATACCAAAAGTTTAAGGCAGTGGAAGAAAGCCTGCGTAAAGAGCTGGTG
GATATGCTAGGTGATGATGGTGTGTTCTTATATCCCTCACATCCCACAGTGGCACCTAAG
CATCATGTCCCTCTAACACGGCCCTTCAACTTTGCTTACACAGGTGTCTTCAGTGCCCTG
GGTTTGCCTGTGACCCAATGCCCACTGGGACTGAATGCCAAAGGACTCCCTTTAGGCATC
CAGGTTGTGGCTGGACCCTTTAATGATCATCTGACCCTGGCTGTGGCCCAGTACCTN
Sequence 5143
CCGGGCAGGTACCACTGGCATCGTGATGGACTCCGGTGACTGGGTCACCCACACTGTGCC
CATCTACGAGGGGTATGCCCTCCCCCATGCCATCCTGCGTCTGGACCTGGCTGGCCGGGA
CCTGACTGACTACCTNATTGAAGATCCTTAANCGAAGCGCCGGATTACAAGCTTTCAANC
AANNCACTGGNCNCGCTTCTNATAACTTAGTTNGGAATCCCCCCCGGGGCCTTGCAAGGG
AAATTCNGATAATTCANAGTCTTTATTCGAATACTCGTACGAACTCTTCGGAGNGGNGGG
GGCNCNCGGTTANCCCCAGTCTTTTTTGNTTCNCCTTTTTAGTGGAAGGGGNTTAAATTT
TGNNGCNGCNTTGGACGTTAAATTCAATGGGTTCATTAAGGCATTGGTTNTNACTTGGTT
GATGGAAAAAATTTGATATAATTCCCCGGCCTTNCAACAAAATTTTCNCACCNACCAAAA
CCAATAANCTGAAGTCNCCGGGGGAAGCCAATTAAAAAAGGTTGGTAAAAAAGNCCTCTN
GGGGGGGGTTGGCCCNTTAAATTNGAAGG
Sequence 5144
GGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGAAGAAGAGATGCTGTGGTTGAG
ATTTGTTTTCCTCTCTCCTGGGTTTTAGATCTTAATTCTCGTTCCTTGTTCACACCACTG
GTATGCTTTATCCTGGTGTTTTCCAAATGCTCTGATTTGTCAGAGTTGTTGCCTGTGAAT
NGGAGTGATNGGAGCANCTTGGGATTAGCCTTTTGCGCTGTCCTTGGAAGGAACCATTTT
GGGTTTATTTTTCGTTGCGTCTAGTGCTTTGACCTTCTTGGCATGTTTACTTCCTTTGTA
GTGGGCCTCGGCCTGGCTATCTGAGTTAAAGCGAAGCTGACAGACATTACAAGAAATAAC
TTGTTTCTTCTTTGGGGGAATGGATACTCCAAATGTATTGGTTAATAACCGCTTTTTGCA
CAGGATCCATTGTGTTAAAATTTTGGAAAGGAGCCCA
Sequence 5145
NCGCGGTGGCGGCCGCCCGGGCAGGTACAGAGGGCTGGGGAGAGGATGCANAGCTGCAGT
TGGATGAAGATGGGTTTGTGGAGGCTACAGAAGGTTTGGGGAATGATGCTCTTGGCAAGG
GACAGGAAGAAGGAGGTGGCTGGGATGTAGAAGAANNATCTGGGAGCTCCCTCCTTGAGC
CTGGGATTATATTCCCCTNGGGGCAACNTGGGTGGTGGCTTGAAGANTGGTTTTCTTTTG
TGCCNCCCAACCAAGGGNAACNAAAGTCNCAACTTCAGAATCTGGGTTGTAAANTAANCT
TCTTCANGCTTTCCAGTTTGGATCCACCATCCCTGGTCAGGCNTCTTTTCTNAAAACAGT
CACATGGCCGGCNTCCTTTCAATGTACCCAAAGTTNGNGGGGTAAATCCCCAAGNTTTTG
GGCCCCCTTACAAATGCCAAACCTGGTTTCCTTACCAGGAACATTAACGGCCCNCGGAAG
GGCCCGCAACNAAACNCTTATTCAAGGGNCTTTCTTG
Sequence 5146
CCGGGCAGGGTACGCGGGTATGCTTGACTGGTGTTTCTTTTGTTGTTGTTTGTTTTTCTT
TCAATTGGAATTCTGTATTTAAGATGTTATGTCAGCTGACACATGGGACACTCCTGAAGA
GGTGACTGGCCCCCCACCCTGTTTGGCGGTGAGTTTCCGNACCCACCCGGCCTCAGGAAG
TGTCCCTCTTGCTTTCGACTCTTGTTCCGCTTGCTTTGTAAATACTTTGGTCCCAAGCTG
AGACAATTGCTGTGTAAAACGTGAANAGTCAATCCCAAAGGGTGTTATTTGTCAGAAGAA
CTTGCCGTGTGCCTTCACCGAANGCAGTCAAGTCTGCANTTGGATTTNTCTCACTGGTGA
ATGACAAGAAACCAGGGGATNAATTTTTGCACTGCGGGAGGATTATTTANCNGGGANTTG
GTCTANTT
Sequence 5147
GGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTAAAGTATAGACTAATTAACCTAAGC
TACCTTTAACAACGTAGAATTTAGATGGGTTCATATATGTGAGAAAAACCTGAATATAGG
ACAGGGGTCCCNCTTTTTTCCCCACCTCTGTCGCCCAGGCTAGAGTATANGTGGTGTGAT
CTTGGCCCACTGCAACCTCTGCTTCCTAGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCA
AGTAGCTGGGATTGTAAGAGTATGCCACCACGCCCAGCTACTTTTTGTATTTTTAGTAAG
AGACAGGGTTTCATCATTGTTGGCCAAGGATGGTCTCTTAACTCCTGCCCTCAAGTGATC
CACCAGAGAGGAGATCCTCGGCCTNCCCAAGTGCTGGGATTATNGGCATGAGCCACNNGC
CCAGCCTACTTT

Table 1

Sequence 5148
AGGTACTGCAGCCACGTTGGCCTTCTTGGTATTCTTTGAATACAAGGGAGCTTCTACTTC
AAGGCATTTACATTGGCTGTTGCCTTAGCTTAGAACGCTCTTTCTNCNNATAGCCGCAGA
GCCCGCTCTCTCACCTGACTCATGTNTCTGCTNAAATGTTAAATGATCAAAGAGGCAAGT
TCCCCNGCCTCCCCCTTAAAATTACAACCTGTTCACTCTCCAATCCTTTCCTCACNGATT
TTTCTCAAAAGNCACTTACTCGCTAACCCAACATTATTATNCTAAAATNTTTTTTTGTCT
CTTTTTTATTTAGGGAAATGGTAAAGATTTTCATGTTAAAGCCAGGGGAAACCTGGTAAT
TATCAACTGGCTTATACCCCTNCAGNCATTTTTAAAAACAAATGGGCNTGTTACCCTCNC
GGNGGGTGGGCCGGCCTGGGGGGTTTTGGGCTTCCATGGACCANAGGATCTATTGGGG
Sequence 5149
AGGTACTAATACTCCTGTTAAAATTCAACAGCTTTATTGTGAAAGAATCCAGAGATCTCA
CACTGAAAAAATACTAACACAGCTCATATATAAATTACTTATCTATAAGAACAATTATAG
AAGGAATCTAAATGGGGCAATTTTTAACANACCCAGGCAATNATATCACAATATACCTNG
AATATAAGGTAACTCCAAGCCATGAGTATAAGATTAAGNGTCAGTTACTTTTATTTNTGA
ACAAGGCAAGTGGCATAAGGCATACTCAAGTGTGNTGCCCCTTAAGGNGTGGGGAGCCTC
NTTCCCCCTTACCACTCCCCACCCCAAAGGGCATCATTTTNTGNGGAGNAAAAAANAAGG
TGGNTCTTCTTATCCTGGCTAAGCNTGNTGTTTTATACTNAGGGATTTGCCACCTTT
Sequence 5150
AGGTACTCAATACATCTTTCAATAAAAATGGGGATCGGCTTCTCTGGAGTCACGACAGTT
GTTAAGGGCACCCCAAAATAGTTACTCTCCCAGGTTGCCTTTGTGATGGATGGCCGGGGT
TTGGGCTTTGGTTTCTTAGTGTTCCTCCTTAGGCTGCGAAGAATATTCCTCCTCCGCGGG
TCTTCGTCTGTTTCGTATGGAATGACAGCATTGTCCCCTTTATAACCCCGGGATGCCTGA
TCCTCCTCTTTCTTCCGGATGGGCCCCAGCTCATCATCACTCCCCACGCTGAAGCTGGTC
CGGTAACTAGCAAACCGCCCCAGCCGGGTGCATCTCGTCCTGTACCTGCCCG
Sequence 5151
CGCAGAGCCGCCAGGAGCAGCCGCTGGAGTGCAGAAAACGCTCTCAATTTTCGGGTCTCA
AAGACCCACAAGCCCACACCACGCAGGCCGGGACAGGAAAGAGTCCCCCGCGTACCT
Sequence 5152
AGGTACATGGNCGAAAGTGCCTTATACAGGTTGAATAAAAATCACTGCCATTTTCAGAAT
ATTGATGGCACCTGAGGACTTGAAATTGNGTCCAGAACTGGTGGGTTCTTGGTCTCACTC
ACTTCAAGA
Sequence 5153
CCGGGCAGGTACTTTACAATTCATTCGTGAAGCTTTAGCCAAAGACCTTGAAAACTANCA
GTTGTGCTCTTCCANTTTTCATATGTGAATTCAGTGCAAGAAACTTGGTGTTCTGTTTCT
TCTTTTAAGCTCTATGCAATCNTTGCAAAACATANTGATCATAGCTGTTCAACATTGGTC
T
Sequence 5154
CGCCCGGGCAGGTACAGGGAAGGCCTTTCGGGCAGGGCACATGGTTCACTGCCCCATGAC
GTGATACCTTGAAGCACACCATTACAGACAAGTGGGCCCCCATTAATCACCCGAGCAGGT
GCTTTTGCCCCCTGTCCAAGCNTCCAGCACACAGCATGGAACTTTGGTCAACCTTTCTGN
AGGGTNGAACTTTGCGCACACACGTCATNTGGGAAATAAACATGGAGGTCCACACCACNT
GGAAGTTNTCATTNTGGGGGTCAAAGTAACTCCTCTGNGTTCAATGNCTAGCTCCCCAGT
CCTTGGAGAGTCGTTANCANNATGGGTCCTCCAGTGNCTTGGCTTCCTNGGTNTNGGATC
AAGGNTTCCAATGGACNCTTCANCAGGCCATTCCCGTTGNANGCTCNGGGNAAGGCCTTC
TNGTACAGNGCCGGGAAGCCAAGCATNGANGGTCCGTTGGGCTTGGGGAGATNAATCAAC
CCTGGGCCCNTGGAGGGA
Sequence 5155
CCGGGCAGGTACTGTTCCTGTTGGCCGAGTGGAGACTGGTGTTCTCAAACCCGGTATGGT
GGTCACCTTTGCTCCAGTCAACGTTACAACGGAAGTAAAATCTGTCNAAATGCACCATGA
AGCTTTGAGTGAAGCTCTTCCTGGGGACAATGGTGGGGCTTCAATGTCAAGAAATGTGTT
CTTGTCAAGGATGTTCCGTCGTGGCAACCGTTGCTGGTGACAGCAATAAATGACCCACCC
AATNGGAAGCCAGNCTGGCCTTCACTGCCTCAGGTGNATTATNCCTGAACCATCCAGGGC
CAAATAAAGNCGCCGGTCTTATGCCCCTGTATNTGGATTTGCCCACACCGGGCTTCACAT
TGCATGCAAGTTTGGCTGGAGCCTTGAAAGGGAAAAAGGATTGGATCCGCCGTTTCTTGG
GTAAAAAAAGCTNGGANAGGATGGGCCCCTTAAATTTCCTTGGAAAGTNCTGGTGGATGC
CTGCCATTTNGTTG
Sequence 5156

Table 1

CCGGGCNGGTACTGTTATTATCCCTATTTGCCAATGAGAGAAAGAAGGCAAGANAGCTTA
AGGAAGTTTTCCTAATTGCCCAGCTAGAAGGCAGGACACANTTGCCAGCAGGGGGCCGTT
TGCCCCCATGTGT
Sequence 5157
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAACTTTTCACTTCTTTTATTTGT
TAAAATANTNACATCCATATACATGAAAAGATTTGACCATNNTGCATTCATTGATTGTGG
CTCTTGCCATCTCGTGGCNTCCAGNATCCTGGCTNAAAGGTTTTTACCAAGTAGNTGCTG
GGAAGCCACTGAGGGGTTNTTCCTTTCCAAAGTNTGGAGTCANAGGGCATGGCCTTTTAA
TTTTGAAGTTTGAACCTGNGTTGGAGGCAAGGTAGTTCCTCACTGGNTCTCTTTACTAAG
GGAGGTTTTTTCTTTTTCATAAAAAATNCTTGGCTTTTTTATNTTTGGANATTCTTCTCT
NGNAGTTTTTTNATTCTTTTAGTATTTTCNCTCCATTAGCTAAGGTTGNGAGGTCTTTTT
CTTGTTTCTTTCTAAATCCAAAGACTTTCCC
Sequence 5158
AGGTACGCGGGTTTTCTTTTCGCCATCTTTTGTCTTTCCGTGGAGCTGTCGCCATGAAGG
TCGAGCTGTGCAGTTTTAGCGGGTACGCGGGTGAAGATCCTCACCGAGCGCGGCTACAGC
TTCACCACCA
Sequence 5159
AGGTACGTTTGGGAGCCTGAGCTGGAACTGAAGCTGGGGCTGCAGCCTGGGCCTTGGTTT
GATCCTTGGNCTTGGCCTTGGCCTTGGCCTTTGGCCGGCACANNCTGAGCCCCTTGGCAA
TACGGGCACGAGCACGCTTCCCAAGCTTGGGGTGGGCAATGTAGGCAAAGTCCGATCGAG
CTTGCGGCTGACACCCTTTGGGATCTTGGGCTTTAACTCTCCTTGGGNCTTTACNGAGGN
GCNCTTGNATAGCNCTTCGGCACGTGCCACTCATGGCTCTTGGCATNTGTTGGCNCTGCA
TTCTTTCTTTTAGGGCCCCTTTTTGTTTAGTGCCTTCTTTGGCAAAAGCCGNCATGTTCC
TCAGGGAACCTTGGNGGTCCACNCCCCTTAAAGGAGATTCGTATCTTTTGTGGATNNGGG
NGTTTTTCTTNGATTACCATTTTTCTGTGCCCAATTTTTTCGGGGACTGGGNTTGTGGTG
TGGATGGTTGGTTTCT
Sequence 5160
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGGNATTTTANTATT
TTAGCTCTANGNNTGTAATAGAGGGGGNTCANNGGAATTTTACCTAAATACTGGCATAAA
TCTGAGTGCTCGTCTTTCCCCAAATAATGATGTTTCTAAATGGGAAAGTTCATTATAAAA
CATTCTTCTCTTCTTCATCTCTTANGGGNGATAGCTAGCAACATTACCCCTTCCTTATCT
ACNAAAAAATTATTTCTTAATTATAANAAAATTCATTCATTAAAGGTGTTATNCATTTTC
CTTTTTTTTTCTCCAAGAGGNGGNAATTNAAAAAAATACNGAATTTTGCNGNGACNTNTA
AAACACGTAANTAGGGAGNAAAAGGGAGTTTATTNTTNNNAAANAGTGGGANATCCCGCG
GTACCTNNGGGATNTAACAAGGGCCGTGGAGNCCACTTNTGGCCNCANCCCAAAAAATGG
NTTT
Sequence 5161
TGGCGGCTCGAGGTACTTTCCTTGACAGGCAAGACTGTTGGCCAGGGCTCGCTTGACATA
CTCCTCCTGCGCAGCCTTNANGTTCTCCTTCTTCCCGCCCCAGGCCTTCANGGCAGAGGC
CTGCAGGGCTCGGCCGANGTNCGCGGGATCCTTGAGGAGCGGNATGCCTCTTGCCAGCTN
CTTCACTGAGCCACCAGCCTCCTTCAGCTCCACGAGTCAGAGTAAATANGCCTTNAATTN
AAAGNAATTGTGGGACCGATTATTATTGNAAACNCACCCGGGTCCGGGGTAGAAGCCAGT
ACCCTGTAGGAAGTAATCCGTTTGNCTATTNAATGNAGNAAGGNATTACCCTTGGNCNTG
TTNTGNAAAANAACAACATTGTTTTGCNAAAAAACCTNTATTTTCCGAAAATTATAAAGG
AAGGGTTNAGGAAATTTTTTGGGGNAAGGGACNCCTNGCCANCCCCCACGGAGGTTTNCT
TAAAANNCCCTTGGGGATTGAATNTAACCTTTNCAAT
Sequence 5162
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTGGTCTTGGCGCTCCTGCTTGTGTCCGC
CGCTCTATCCAGTGTTGTATCACGGACTGATTCACCGAGCCCAACCGTACTTTTAGTAGA
GACAGGGTTTCACCATGTTGGTCAGGCTGGTCTTGAACACCTGATCTCAGGTGGTCCACC
CACCTCGGCCTTCCCAAAAGTGGCTGGGGATCACAGGCCGTGAGCCACCATGCCTGGCCT
ATTTATCATTTTTCATACTTGCTTGTCAAGGNCCTTCAAAGGCTATGCTTCTGATTTGCC
CACACACTTTACTTCTGAGTATTTCATATTTTACGGGTAGGTA
Sequence 5163
AGGTACCGGCTCAGTTCCCGAGGCCCAGAGCCCCGCGTCCCGGCTCCTTCAGCCTCGCTC
GCCACAACCAACCATNCTCCAACCTGCACAGAGGACCCGGGAGTCCGGATGGCGGCGGAT
ACCGGCAGTGCGGGAAACCACTTACCTGCTGCTCTCCANNAGACGGC

Table 1

Sequence 5164
ACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTT
TTTTTTTCTGATGTTGAGAGTCAGTTTTATTGCCATCTCTGGGAGGGGCTNAAATCCGCC
CAATCTCCTTNAGCTNGGCCACCAGGTCCTCAGTGGTCTCCACCTTGACGC
Sequence 5165
TGGCACGCCCGGGCAGGTACGCGGGGAAAAAGGAGAGACATGGAAAGGGAGACAGCCAGG
TGGCACCTGCAGCGGCTGCCCTCTGGGGCCACTTGGTAGTGNCCCCAGCCTACCTCTCCA
CAAGGGGATTTTTGCTGATGGGTTCTTANANCCTTAACCANNACCTGGATTGGGTGGGCC
CATAAAAATNAATAAGGNGAACCCAAGNCCCCTTTTCANTGGGGNTGGGGATGAACCTTT
GGNANAAGNTCCACCATTTGTTNAATGGGGGGGATACCAANNAAAAAACCAATNTTGTTA
TTGTTTACNTTTAATTGGGGGGNGGTTGGANGGAAAATTANTTNAAGNANCCACGTTGGC
CCCCCCTTTTGGGTTGGCCNNNAAGGGGGNAAATGNCCCAAANTTTTTNNATATAANANG
GGAAAACCTTTTGGTCCCCCNTTGGNANGNCAACNTTTCACTTGGGGTTGGNNCCAAGGG
NTNCTTTTCTCCAACCCCTTGGGCCAACCANTTATGGGGTGGTTGGGGGGGGGGCCTTC
Sequence 5166
CCGCGGTGGCGGCCGAGGTACCTGCCCACAGCCTTGGTCCCTGGGGGCTAGACTGCTCAA
CTGTGGAGCAATTCATTATACTGAAAATGTGCTTGTTGTTGAAAATTTGTCTGCATGTTA
ATGCCTCACCCCCAAACCCTTTTCTCTCTCACTCTCTGCCTCCAACTTCAGATNGACTTT
CAATAGTTTTTCTAAGACCTTTGAACTGAATGTTCTCTTCAGCCAAAACTTGGCGACTTC
CACAGAAAAGTCTGACCACTGAGAAGAAGGAGAGCAGAGATTTAACCCTTTGTGAGGCCC
CATTTGGATCCAGGTCTGCTTTCTCATGTGTGAGTCAGGGAGGAGCTGGAGCCAGAGGAG
AAGAAAATGATAGCTTGGCTGTTCTCCTGCTTAGGACACTGACTGAATAGTTAAACTCTC
ACTGCC
Sequence 5167
CTCACTATAGGGGCGAATTGGAGCTNCACCCGCGGTGGCGGCCGCCCGGNCNGGTNCGCG
GGGAGGCATTGAGGCANCCANCGCNGGGGCTTCTGCTGAGGGGGCAGGCGGAGCTTGAGG
AAACCGCAGATAAGTATTTTTTCTCTNTGAAAGATAGA
Sequence 5168
GCCGCCCGGGCACGGTACGCGGGGTGGCGGCNACNACCCATTCGAACGTCTGCCCTATCA
ACTTTCNATGGTAGTCGCCGNGCCTACCATGGTGACCACNGGTGACNGGGAATCATTGGT
TCNATTCCGGAGAGGGAGCCTGAGAAACGGCTTCCACATTCAANGGAAGGGCAGCANGCN
CGCAAATTACCCACTCCCCNACCCGGGG
Sequence 5169
AGGTACTCCCAGACATGGATGGTTCACTTTCCAGGGCTGTCATTGATGAAAATGCTTTGG
GATGAGTACTTTTTTTTTTTTTTTTTTTTTTTTTATAATATAATCTGTTTTATTTTACAC
TTCTCTGATTATTGAAATCTAAATAGAGGTTTTTGCTNACAAACNAAAAAAGGNATAATN
AANAAGACAGCANNGGACACNATTAAATGTTGAGTGCAAATNAANGGTTGTAATGAGGCC
CCATCCTGGGGAGGCTGTACCTGCCCG
Sequence 5170
CCGCGGTGGCGGCCGCCCGGGCAGGTACAGACAAGGTAACTGAGACAGTGATGAATGGCG
GCATGAAGGAAACGCTCAGCCTCACTGTAGATGCCAAGACAGAGACTGCGGTCTTCAAAA
GTGAGGAAGGGAAACTGTCTACCTCTCAAGATGCTGCTTGTAAANGACGCAGANGAAGTG
TCCCGAGACTGCAGAGGCGAAGTGCGCGGCGCCCAAGGCCTCCCAGCAGCAGTCCCGAGC
AGAGGACTGGCCAACCAAGCGCACCAGGTGACACTTCAGTGAATGGCCCTGTATGACGGG
TGACGTCTGCTGCTGCTGACTGAGGACTGCAGACCGCCACCACTCAGGGGCTCTGGAGGG
GTCAAGCTGGAGCCCACCAAGCTGTCACTGCTGCACTTCACTCTGCAAGGGATCAAGGAC
CAGCCAACCTT
Sequence 5171
CCGCGGTGGCGGCCGAGGTACGCGGGGAGGGGCGGGCGTCGGGGACATTACCGGACAGGC
CTTGTCCGGCAATACCAAGTTTCATGCAGGCTCTTGGGAAAGCTGGTGCTGCTGCTGCCT
GATTCCCGCCGACAGACCTTGGGACCGGGGCCAACACTGGCAGCTGGAGATGGCGGACAC
CGAGATCCGTGCACGAGACTAGGTTTGA
Sequence 5172
CCGGGCAGGTACTTTTTTTTTTTCTTTTTTTTTTTTTTTTGAGACAGAAGTCTCGCTCTGT
CNCCNAGGCTGGAGGGCAGTGGCACGATCTCAGCTCACTGCAAGCTCCAACTTCCGGGTT
NACGCCATTCTCCTGCCTAANCCTTNCAAGTAGCTGGGGACCTACANNNTGCCCTGCNAC
CGTGCCCGGCTAAATNTTTTTTGTCATTTNTTANTAAGANAACAGGGGGTNTTTNAANCA

Table 1

TTNTTTANNNCCGGGGAAGNGTTCTTTTNGAATNCTTNCTTGACCCATTATGNATACTCA
CTCCNACCCNTAAAAACACTTCCCCAAAAANGTGGTNTNNNTGNAATTTNCCAANTGNCG
TTNNNAGNCCCATCNTGTCGGCNCCNGGGGTCATAAGNANNCCTTTTTTTTTTTTTTNTA
ANATACAAGANATTATACAANAGCCCTTTGCCCAATTTGCTTTTTTN
Sequence 5173
AGGTACATTTCCTGCCCCAGATCTGGGATCACCATTTCTTCAGCAAACTCTGGTTCCTTT
GAGAGGGAAATGGTATTTAGAGATCACAATCTGAATGCTAGGGGTGTTGGTTACTACTTG
TTATTGCTTTTAGGCATTTCCAGGAGAGAGTGCTAGAAAATATTTTTACTAAGGTAAAAA
AATAAATTATGAGCCAGGAGTGGTGGTGGTGTAATCCCAGCACTTTGGGAGGCTGAGGCC
AGTGGATCACCTGAGGTTGGAGTTTCAAAACCAGCCTGACCAACATGGAGAAACCCTGTC
TCTACTAAAAATACAAAATTAGCCGGGCATGGTGGCACACGCCTGTAATCCCAGCTACTC
AGGAGGCTTGAGACAGGAGAATCGCTTGAACTGGGGAGGTGGAGGTTGT
Sequence 5174
CCGCGGTGGCGGCCGCGTGGGTGAGTTGGCTGCCGGTGAGTTGGGTGCCGGTGGAGTCGT
GTTGGTCCTCAGAATCCCCGCGTAGCCGCTGCCTCCTCCTACCCTCGCCATGTTTCTTAC
CCGGTCTGAGTACGCGGGATTGAAAAACTTTTTGAGCGTTATGGTGAAAATGGAAGATTA
TCCTTTTTTGGTTTGGAGAAACTTTTAACAAACTTGGGCCTTGGAGAGAGAAAAGTAGTT
GAGATTAATCATGAGGATCTTGGCCACGATCATGTTTCTCATTTAGATATTTTGGCAGTT
CAAGAGGGAAAGCATTTTCACTCACATAACCACCAGCATTCCCATAATCATTTAAATTCA
GAAA
Sequence 5175
AGGTACGCGGGAGTCTCTTTGGAAACTTCTGCAGGGGAAAAGAGCTAGGAAAGAGCTGCA
AAGCAGTGTGGGCTTTTTCCCTTTTTTGCTCCTTTTCATTACCCCTCCTCCGTTTTCACC
CTTCTCCGGACTTCGCGTAGAACCTGCGAATTTCGAATAGGAGGTGGCAAANTGGGAGAA
AAGAGGTGTTAGGGTTTGGGGTTTTTTNGTTTTTGTTTTTGTTTTTTAATTTCTTGATTT
CAACATTTTCTCCCACCCTCTCCGGCTGCAGCCAACGCCTCTTTACCTGTTCTGCGGCGC
NCNNNCACCGCTGGCAGCCTGAGGGTTAAGAAAGCGGGGTGGTATTTTAGATTTTNAGCN
AAAAATTTTAAAAGATAAAATCCATTTTTTTTTTCCCCACC
Sequence 5176
CCGGGCAGGTACNCGGGGGCGGCGACNACCCATTCGAACGTCTGCCCTATNAACTTTCGA
TGGTANNNNNCGNGCCTACCATGGTGACCACAGGTGACGGGGAATCAGGGTTCGATTCCN
GAGAGGGAGCCTGAGAAACGGCTACCACATTCNCAAANGAAAGGCAGCNATGCCGCCGCA
AATTTACCCCACTTCCCGANTCCGGNGGGAGGGTAGTGACNGATTTATACNAAAAGNATA
ATNAAATAATATCNACNANAANTATGGTTNNCCTTTCGGGGCCNNATTCTTATGAAACAT
AAGTTGNNANTTCCCCACCCGGGGGCCGTNNNAANGGGAAAATTTCTGAATAAGTNCAAA
AGCCTTTTAATACNGGAATTANCCCGGNCCNGAACCCCTTCNTAAGAGGGGGNGGGGG
Sequence 5177
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGATTAAGGTAGCGT
CTGCTGGCTTCCTCCTTGTGCAGTTGCCCTTTTTCCCTTCCACAACTATTTTGTGGGGAG
GAACTTTGAAACTATTAAATATTGTGGAACTGGGCACAGTGGTGGCTCACGCCTGTAATC
CCAGCACTTTGGGAGGCTGAGACGGTTGGATCACTTGAGGCCGGGAGTTCGAGACCAGCA
TGGGCAGCATGGCAGAACCCCATCTCTNCTTTTTTTTANAATTAAAAAAAAAAAAAAGGT
ACCCTCGGCCGCTCTAGAACTAAGTGGGATCCCCCGG
Sequence 5178
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTCACTCTTTG
GGTCCACACTGCCTTTATGAGCTGTAACACCGCGAAGGTCCACAGCTTCACTCCTGAGCC
AGCGAGACCACGAACCCCACCAGAAGGAAGAATCTGTGAACACATCCGAACATCAGAAGG
AACAAACTCTAGACATGCCGCCTTTAAGAACTGCAACACTCACTGCGAGTGTCCGCGGCT
TCATTCTTGAAGTCAGTGAGACGAAGAACCCACCAATTCCAGACACATTTTGGCGACCTA
GATGGGACAATCGCCTATCACCGAGTGGTGAGACCATCGCCTATAGCTGAGCGGCGAGAC
AATCACCTATCGCCAAGCAACAAGCAGATGAATGGTGAAACGATACAGCAGAGAAAGAGA
GAAGAGGAACATTTGAACGCCGAGAGGAGTTCANCCGAGGGTGGTCGGAGAGGTTTGGCC
ACCCAGCAGGAAGATTATTTTTCCCGTGC
Sequence 5179
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTCTGAGAAAGATCG
TGTCCTCTGTCTTGTTGGGGGTGAAGTAAAAGAAGGTTGCTTGGATCTCCTGAACCGACT
TATTGTACGCCATTGCGTTCTGGAATGGCAGAAAAAGGAAATATCATTGGCAGCCGCATC

Table 1

TAAGAACTCTGTGCAGAGTGGAGAATCAGATAGTGATGAAGAAGAGGAATCCAAAGAGCC
CCCTATCAAGCTTCCAAAGATTATTGAGGTTGGCCTTTGTGAAGTTTTTGAATTGATCAA
AGAGACACGATTTTCTCATCCATCCCTGTGTCTCAGGAGTCTCCAAGCCCTGCTCAACGT
GCTGCA

Sequence 5180

AGGTACATGTGGGAGAAAAACTTAAGTGTGATGAGTGTGGTAAGGAATTCAGTCAGGGCG
CTCATCTACAGACCCATCAGAAAGTCCACGTGATAGAGAAACCATACAAATGTAAGCAAT
GTGGGAAAGGTTTCAGTCGTAGATTAGCACTTAATGTTCATTGCAAGGTCCACACGGCAG
AGAAACCTTATAATTGTGAGGAGTGTGGGAGGGCCTTCAGTCAGGCCTCTCATCTTCAGG
ACCATCAGAGACTCCACACTGGGGAGAAGCCATTCAAATGTGATGCATGTGGTAAGAGCT
TCAGTCGGAATTCACATCTTCAATCCCATCAAAGAGTTCATACAGGAGAGAAACCATACA
AATGTGAGGAGTGTGGTAAGGGCTTCATTTGTAGCTCAAATCTTTACATTCATCAGAGAG
TCCACACAGGAGAAAAACCCTATAAA

Sequence 5181

CCGCGGTGGCGGCCGAGGTACNCGGGGGATCCTGCTTNTCGCCAAGGCANGAAGNGAGTT
TCTCACTGCAATTCCGGGCGGTGNCACGAGTGAAAAGNTTTGTTNNTTTTTTTCGGCNGA
GATCCTNNCNGGGGCTGGNAAACTCCTGCANAACTCTAGACCAGNAAGCCANNCCGNACC
CCACCCCNACNAAAGCCACCTACTCTTCTTNTGTGGGAGGCCAGTCCACATNCGTTCTNA
CCCGAGAGANATNTTCAGNTNGATCCAAANTGACTGATCAAGGGA

Sequence 5182

AGGTACGCGGGGGATCCTGCTTCTCGCCAAGGCANGAAGTGAGTNTNGCACTGCAATTCC
GGGCGGNGNCACNAGTGAAAAGNTTTGTTTTTTTTTTTCGGCGGAGATCCTNGTTGGGGC
TGGGAAACT

Sequence 5183

CTTAGGGCNAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGGTGATATTGG
CGGACTTAAGGACATCGAATTGTNTATCAGGAATAAAGNATTATGTGTGTTTTCTGCGGC
CCTGGATAATGTTGTAGCATTCAGGGTCGATTGAGTAAAAAAAATGTAGAGATGGTTTCC
TGTTTGTTTTTGCTTCTAGTTNNCATTCATTTGCTATTNATTCTCTNCTGGCTTTGCTNG
TGTATGCATATATATAAAACCATTATTATTATTANTATTATNCTTAGTATCTAGTGGAAG
GCTTTTATTNGGTTCTGNGAATAGTCATTTTGTNTCCTAAGAACTTCCAGCAAGTTGTAT
TCATTCCATTCATCTAGAATTCCTAGGCTGCCCTTTGGCCG

Sequence 5184

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCACTCTATCCTTTTATTCCTTCC
CAGGCTATTGCAGGAAAAGTCTTGTTTCCCAAAACCGCTGTGCCTTTCTCCTCTTTGCCT
TTCACCCCTGGGAGGGGGCCCAAACTACACAAGTGGGCTTTATTTGGGAGAGGGGAATGG
AGGGTTGNAATAAAGAAAAGCTCAGCTTCCAGAAACACCACACTCTCNTTGGGTTTTCTN
TGACCTTAAGGNAACTCCTTCTNAGTCCTTNGGGCTGATTTCCCATTTCCCAAANAGCCC
AAGGGC

Sequence 5185

CCGGGCAGGTACGCGGGACCCCAACCTGAGCACATCCCTCGACGATGCCTTCCTGCTGCG
CTTCCTCCGAGCCCGCAAGTTTGATTACGACCGGGCCCTGCAGCTCCTCGTCAACTACCA
CAGCTGTAGAAGAAGCTGGCCCGAAGTCTTCAATAACTTGAAGCCATCAGCCTTAAAAGA
TGTCCTTGCTTCCGGGTTCCTCACCGTGCTGCCCCACACTGACCCCAGGGGCTGCCATGT
CGTCTGCATCCGCCCAGACAGATGGATACCAAGCAACTATCCAATTACTGAAAACATCCG
AGCCATATACTTGACCTTAGAAAAACTCATTCAGTCTGAAGAAACCCAGGTGAATG

Sequence 5186

AGGTACAAATCCTCTGAAGCCTTTGCAGTTCCAGTCCCAAGATTACACTCATATACTTGC
AAATGTGCAAAATAAACTCCATACAAGTATTGTCACTGGTGCAACTACATTCACTCTAAT
TTTCTTTCTTGCTACCTCTTTAGCAAGAGCACGTGAAAATCCAACTAATCCTCCTTTACT
GGCACTGTAAACGGACTGGCCAGAGTTGCCTTTTAAGCCAACAATGCTTCCTACATTAAC
AATAGACCCTCCCTGTTGTTGAATCATAGTCCTCATGGCAGCTTTACAGGTCAGCATGGA
ACCCAAGAGGTTAGTATGAAGCTGAGATACCATATCTTCAGTTTT

Sequence 5187

CNCCGCGGTGGCGGCCGAGGTACAATGCAAACAGTGCCGCTTCCAGTGCTACCCACACGG
GTGCAGCCTCACGGGAGAGTTGCGGAGAGAGGGAATGCGTTCAGTTCAGCCAGCGGACGG
CCAGGGGTAAGCGGCCCCTAGTGGGTCACATGGCCTATGATGTCTGGAGACCGCAGATCT
TCACCCTCTGGAGTCTCATTTGCAGAGTCTCATTTGTCGTCCGGTCACTGTGGCCACCTC

Table 1

ACCCTCGTCACCACGGGCCTTTCCTGTGCCGTGCTCACTCTGACACTGAGATGCTGCCAG
GCAGTTTTTTTTTTAAAAATCAGTGGAGTAAGTTCTAAGGGAGCCCCATGTGCTTAAGAT
AAAAACGTAGCTGGTAAAG
Sequence 5188
GGCAATTGGAGCCTCCACCCGCGGTGGCGGCCGCCCGGGCAGGTACTGTAACAAAAAGCT
GGCTTTAGGCGTGGCTTGTAGAATCAATCTAACTACTAGACAAGTTACATCTCATATATG
TGTGGCTTCTTTTTCTTCTTTTGGGGGGCTACAAGGAAGGTTTGGAGAAATTATTTCCAT
CATACCTTTTTGTTAGCCTTTTTCCATTTCTGGCCAGTAAGTAATCCCGTTCCTGACAAC
AGTCCCTTTGTTTTCTCAAGTGGTCTGATGAAGGACTGCAAACCACAGCTCTTGTGTTTT
TTGCACCATGGGTTTTAAAATCCGTCCTCTGCCTCCCCACAAGGAGCTACTACCCCAAGG
GGAAGGGAG
Sequence 5189
CCGGGCAGGTACTGAGTGAAGACACCAGAGTGAAGGAGAGAGGCCATGCTGTGTCCGAGA
AGCTCCTACTGGGGTGGAAGGGACAGCTCCACAAAGGCTGCTCTTGCAGGGGCTCTCCTG
CAGCAAGGTGCCTGCTGACTGTCCCCAGACTGTCTCCCGACACAGAGGGATGCAAAGGCA
GCCTCTTCCTGCTCAGTGGAATAGGGAAATTATATCACCTTTCACTTCCCACTCTCACTT
CTGCCCCTGCTACCCTTAGTCTTTGGCTTTTGCTGACATTTTCCCCTCTTATCTTTTCTC
CTGACCAAGTTCTAGGTATTTCATAGGGCAGTCTAGGTGAGGGTTGGAACC
Sequence 5190
CCGGGCAGGTACCCGATTAAACCAGAGCAAAAAACTACCTTCTGCAGGTCAGGGAGCTAA
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GAGCAAGTCTAAGTCAGACAATCAGATCAGTGACAGAGCTGCTTTGGAGGCCAAAGTGAA
GGATCTTCTCACACTGGCAAAAACCAAAGACGTAGAAATTTTACATTTGAGAAATGAACT
GCGAGACATGCGTGCCCAGCTGGGCATTAATGAGGATCATTCTGAGGGTGATGAAAAATC
TGAGAAGGAAACTATTATGGCTCACCAGCCCGACTGATGTGGAGTCCACTTTATTGCAGT
T
Sequence 5191
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TTTAGTTTTTATTTCATAATCATAAACTTAACTCTGCAATCCAGCTNGGCNTGGGNGGGA
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GCNAGCAAATGGGGG
Sequence 5192
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CATTTTTAAAACTAGCAACTCTTATTTCTTTCCTTTAAAAATACATAGCATTAAATCCCA
AATCCTATTTAAAGACCTGACAGCTTGAGAAGGTCACTACTGCATTTATAGGACCTTCTG
GTGGTTCTGCTGTTACGTTTGAAGTCTGACAATCCTTGAGAATCTTTGCATGCAGAGGAG
GTAAGAGGTATTGGAT
Sequence 5193
NCNGNCCAGGTNCGCGGGGAGACTTTTGCCACACACAAATTTGTGAAAATTAAACCGAGA
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TGCCTGGCAGAACATACCACTGAACTAGTATGGTGCTAGAGGAGGGCACAAACATCCGCT
CCTTCCCTAGGCCTGNNGGCTCTGGTTNTCNATGCANATGATTCATTGGGATNGGGGGGN
GAGTGTTNTNGTTTTTTCTGGGGGCAGGTNAGAGCTTTTGAGGGT
Sequence 5194
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CCGGCAAGATCTTGAGTGACGATGTCCCTATCAGGGACTATCGCATCGATGAGAAGAACT
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Sequence 5195
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CGGTAGGGAGGGGTTGCTGGAGGGGTGGCCCACGACCGGGTCGAGTGACTCGGTGAGTAC
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Table 1

AATGGAATGCAAAGCAATGGAATCAACTCGATTGCAATGGAATGGAATGGAATGTAAAGG
AATACATTGGATCAACCCGAGTGGAATGGAATGGAAAAGGACTGGATTGGAGTGGAATGG
AATGGAATG

Sequence 5196

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TGCAGGAAAATGGACAGTGAGGTTCAGAGAGATGGAAGGATCTTGGATTTGATTGATGAT
GCTTGGCGAGAAGACAAGCTGCCTTATGAGGATGTCGCAATACCACTGAATGAGCTTCCT
GAACCTGAACAAGACAATGGTGGCACCACGGAATCTGTCAAAGAACAAGAAATGAAGTGG
GCAGACTTAGCCTTACAGTACTCGTCTTGGTGAGAGCGNGAGCTGCTGAGATTTGGGAGT
CTGCGCTAGGCCCGCTTGGAGTTCTGAGCCGATGGAAGAGTTCACTCTTGTT

Sequence 5197

CCGGGCAGGTACATGGCATCAGCTCTGTCTTCAGGAATCTTTGGCTGTGTGGGAGGATAA
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CTGGTATCATTGAGGCTGGGTGTTCTGACATTAAAGCCACCAGTAACTGTAGCACATCAT
GAATATTTTCATCCTCATCCTTTAGGTGTAATGCCGCTACTGTCAGCTGGATTAATAACC
CAGTAGTAATATTTTAAGGTGTGCATTATCTTTAATAACTGTTCCTATTCTGCGTATGGT
GGTGTAGATGGTAGCAGTTCCAATAAATTCAGCAGACAAAT

Sequence 5198

CCGGGCAGGTACTAACCAGGCCCGACCCTGCTTAGCTTCCGAGATCAGATGAGATCAGGC
GCGTTCAGGGTGATATGGCCGTAGACGTCTTTACAAAATTCCTGACAGGTGGTTACTGAA
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CTCTTCAAGCCCAAACCAATTCTGTTCCTTCAATCTAAATAGTGGTAATATGAATGTTTA
AGAAATGAAATAAGAAACATGTGCAGGCACTTTGGAAGGTGCTAAGTGACT

Sequence 5199

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTGCACATTTCAAGAT
AGCAGCACTCAGTCCATGCCCTATTATCCATCTTAAAAGTTCACACATTATTGTTTACTG
AATAATATTTCTACTGTCTTTACCCCCAAACATTGCAAAACCTGCAATGGAACAATGCTG
TGAGTTATAATGTAGAAATTTTTTTTTTTTTTTTTTAGAAAATCAGTTACTTCATTTTCT
TAATATTCTGAATTCAAGTTATCAGATCTCTATACCTAGGTCATACTCATGAAGCAAAAA
TGCTGCACACCACTGAAAATAATAACGTTATAGATGTCTATCAAAATTCATGAAAACCAG
CCAGGCGCAGTGGCTCGCACCTGTAAT

Sequence 5200

AGGTACAACTGTCCCAGCATGTCAGTTACACATACTGGCCCTAAATGTTCAGCATAATTT
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GACTATGCTTCTTTGGGTCCAAATAATTTTAACTTTACAGCTCTCAGATGTTCTGGCAGC
TCATTCTTTGTCCATTTCACCTATTATACAAGTGTTTCTGGGTCCAAGCCACAGAGCAAA
ATANACACAAATAAATCAAATAATAAATGTTTCATATAAAGGAGAAAATGCTAATGGTCT
GTTATCTATACCAGCAGTCCCCAACTTTTCTGGCACCAG

Sequence 5201

AGGTACTGGTCGCAGAGTCTACTCCTTCAACAGTCCCAGCTTCTTCAGGGCCTCCCTTCT
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CTTGTCACGGCTCTGTCCTTGGTAGGACAGGCGCTTGGAGCTCTGCTCCTGCTCCAGGTC
AGCCAGCTTGCCTACCTGGATACCTGCAAAATCTTTCCCCGTGCCCAGGGAGGCCGGGCG
GGGCCGAGAATTACGTAAGACACTGGGCGAGATCTTGTCCAAGAAGGAGCCCTTTCCCAG
AGAAGTGCTGGTTTTGGGGCTGGCATCTTTCTCAGTTGAAAGGTAGCTGCTCAG

Sequence 5202

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GCCCCTCTCCGGCCCCGGCCGAGGTACAGGGTGTGACAACATGACCTGCATCATCATTTG
CTTCAAGCCCCGAAACACAGCAGAGCTCCAGCCAGAGAGTGGCAAGCGAAAACTAGAGGA
GGTGCTCTCTACTGAGGGGGCTGAAGAAAATGGCAACAGCGACAAGAAGAAGAAGGCCAA
GCGAGACTAGCAGTCATCCAGACCCCTGCCCACCTAGACTGTTT

Sequence 5203

AGGTACCACAAATTAATGGTTAAAATGCATCCCTCATACGACAATGTAACTTCTTCCTCT
CACTGTTGATGGCCTATCTTCCTGAAAACATTAATCTGGGGGTGAGAACTTGGGAGATAC
ACACAGTTGGGTTCACCATAAATGAGGAGCCTCACTGACAGTGGAAGATGCACAGGAAAA

Table 1

GAAAGAAGACTATGGGCTGCTTCCTTAGAATTGTCTTCCTGCTTGCTGTGTTACTGCTAG
AGCTTCCTGTGTGGGCTCCATATGGTCCCTATTCTTCCCACCACTCATGAAAACACCAAA
GAGCAGGCTCAGAGTGACCACAGCCAAGCCCCAGCTCTGCCAGCAGGCCC

Sequence 5204

AGGTACAAGAGTGATTCTGGCATGCCTATAAACTTTCCAACTCCTTCTTTATATTCTGTC
AAGACTTCATGATGTTCTGCTAGGGATGACAGCGTAAGCTGAGCCATGGCAGGAACCCCG
TGGATATTATGCAGCGTGTGATGGGTGAGGTGTGGGGCGGAGCCAGTCTTGGTATACAGA
AGGCAGCCTGGAATATCCATGGTGTGGTCCCCTGTTTTGCCCAGGTTTTTTATTTTTCCT
AGGCGACAGCCATTAACTACCTTGGCAAGACTCAGCTTCATCCTAAGGGATTCTTCTAGG
TCCTGCCAACAAACCATTCGACTCTTTCAGTCTTCAGACCCCTCAAACTCCTCA

Sequence 5205

AGGTACCACTGGTTTGCAAATAGAGAAACCTCTAAGACTCTTCTTACTCATTTCCTTGAC
CAAAATAAAACTATGAGTGGAAAATGGAGTGATGAGCAGTAAGCACACTGGAAAAGTGGG
ATGATCTTGAAGCAAATTGCTGATAATCACTTCTGGGATTCAGACTGAGACTTGAGCAAG
CTTCAAGGTTGGATGACTGAATTGAAGACTTCCATGTTAAATTGGTTATCTTGAGAAGGA
TACAAGTTAATTTCAGATATTGATGATGCTCAAATACTTCCCCGCTCAACTAGAGTCAGA
CATTTTTCACAAAGTGAAGAAACTGGAAATGAAGTTTTTGGTGCTTTGAATGAG

Sequence 5206

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGTAGGTGTTGTAGTAGGAGATGGCAC
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CACCCACCCTGACAAGTGTCCATGATGCTGGGCCCTGAGGGAGGTGAAGGCTTTGTGGTC
AAGCTCCGTGGCCTGCCCTGGTCCTGCTCTGTTGAGGACGTGCAGAACTTCCTCTCTGAC
TGCACGATTCATGATGGGGCCGCAGGTGTCCATTTCATCTACACTA

Sequence 5207

AGGTACAACAGTTGATGATGAAGAACACGATGATAAGGAAGAAGAGGAGGAGGAAGATGA
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TGCTGATGAACTGGCATTCTGTGTTAATGTTGTCATAAGTGCCGAAGATGATGAATAGCC
AACTGTTTCCCTGGCCATTGAAAATTCTTTTCCCAACTGAAAGTCATTATTCTTAAATGC
TTCATAACTGGCTTTTAAACTTGATGTTCTTCGTCCCTCCTTCATCTGAGCTGTAGCCTG
AACTGCTTGAGCAGCTGCCATGGTAATTGCCCCTGCACCAGTT

Sequence 5208

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTT
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GATAGGNGTNTNACCNTGAGGGNGTTGAACNNTGGTCACCTTNGGAGGGTGAACTTGCNC
ACACACNTCATTGGAAATAACATGGAGGTCCACACACTGAAG

Sequence 5209

CCGGGCAGGTACAATGATGTTTTCATCAGCCATGGCAGGCACATAGGCTCCTCCTGCGGT
GCAGGAGCCCATGACCACTGCGATATTTACTGGTTAGGAAGGATATCATAAAGGATACAG
ATGAACAGCCAGATGAAAAGATACATAAGGCGAGTCTGCAAAGGTCCTGAGGGCTGGAGC
TTCTGTCCCCGCGGAGTGGGAATGCACCACCTTCCTAGCACTTGGATGAGTTTGCCAGCA
CAGATGCCCCCGCGTACCT

Sequence 5210

CCGGGCAGGTACGCGGGGGGAGCTAAAGTGGTCGTGATTCATGCTGTCGCGGGAACCCCG
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CCCGTGACACCGTGCTCAGCCCGGGAGCGCGGCCTCTCCCTCCACCAATTTCCAACTGAT
ACCATACAGCGCTCAAAATGGATCAGGGCTGTTAATCGTGTGGACCCCAGAAGCAAAAAG
ATTTGGATTCCAGGACCAGGTGCTATACTGTGTTCCAAACATTTTCAAGAAAGTGACTTT
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Sequence 5211

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TGGTGGAGGCCGTCAANAAGCACATTTTAAACATGCTGCACTTGAANAANANACCCGATG
TCACCCAGCCGGTACCT

Sequence 5212

CCGGGCAGGACTCCGGTCGGTGTCAGCAGCACGTGGCATTGAACATTGCAATGTGGAGCC
CAAACCACAGAAAATGGGGTGAAATTGGCCAACTTTCTATTAACTTATGTTGGCAATTTT

Table 1

GCCACCAACAGTAAGCTGGCCCTTCTAATAAAAGAAAATTGAAAGGTTTCTCACTAAACG
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GGATTGTGGGGGCAATGAATGAAGCGAACAGATTTTCGTTCATTTTTGGTTCTCAGGGTT
TGTTATAATTTTTTTATTTTTTATGGGCTTTTGGTGAAGGGAGGTAGGNTGGTAGTTTGT
GT

Sequence 5213

CTATAGGGGGCGAATTGGGAGCTCCACCGCGGTGGGCNGGCCGCCATCAACCGCCACCCT
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NTTGGCTCNTTCGNNCTATGTAAGNNANGGGTATAGGGGNANGNTAAGGGGGGNGGTAAA
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GGNANAANTNTCCCNGNATTTATTTCCAAAANNCCCTTTTAATTCCGGGANTTNAACCCC
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Sequence 5214

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TTTTTTCCTTTAAAGGAAAAAAA

Sequence 5215

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TCCGGGAAAGGNCCCCCTTTTTGGGAAATTCCCTTTTNGGGGGGCCCCCCAAATTTTTGG
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AGGGGGTTGGGGGGGGNGAAATTTTCCCCCCCCCCCCCCCGGGGGGGGGGCCCCTTGGGN
CCCAAAAGGGGGGGAAAAAATTTTTTCCCNGGNAAANTTAAATTTCCCAAAAAAGGGNCC
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Sequence 5216

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GGGGAATGGGTGGGGNTTNAAGTCNCCGNTTTNTNNTTACAAGGGGCCTTCCCCATTCTN
CTCNGGGNAAAATTCCGTAAAACCCCCNTGGGAATATTCNCCCNCCGNNTTCNACCCCNC
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CGTNTTTCCAGNAAAAATGGGGGGTTCCGGGTGCCCTCCCCCGNCCCAACCGGGGGGGGG
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Table 1

TTCCTTAAGNNAANNTTTCAAACTCCCAANAAAAGNTCCNCCGGTTCCNTGGGTTTNGNC
NCCCCGGTCTCCCCCCCCCCAGNGGNCNCCGGTCCTTTTCTTTAAGANAAAANCCTTAAGG
TTGGGGGGAAATTCCCCCCCC
Sequence 5217
AGGTACCCATCTAGGTGAGCCTTGAGCAAAAGGTAATTTCACTGCCCAACTCTGCAAAGA
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CTTGATGTTGGTTTTTATTCCACTTGGCATTTTCCCTGGTTGACCTGCCTGAGCCATTTG
TACAATTTCTGCCACTGGTCTAGGTGTCTGAGGAGCATCTTCCTGGCTCAGAGACCTTTT
GCTCCAGGTGCTCATGCCGCAAATGGCAATCTGCGCGCGAACTAATTC
Sequence 5218
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Sequence 5219
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GTTTNAATTTAAAAATTTCCTTTCCAAACCCCCCTTGGGTNGGGCCCTTTTTCCAAAAAA
GGGCCCCCCTTGGGGAATTTTTAATTTTTTAAAAACCCA
Sequence 5220
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TTNCCCAAATTTAAAAAGGGCCCTTTGGGGTTTTTTTTTCCCCCCCTTGGGGTTGGGGNT
TGGGGAAAAAAAAAAATTTTTNGGGNTTTTTAATTTCCCCCCCG
Sequence 5221
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CCTGCTGGCCCCACCGCACGACACCAGCACGGATCTCACGGAGGTCATGGAGCAGATTCA
CAGCACGTTTCCATCTTGCTGCCCAAATGTTCCCAGCAGGCCACAGGCAATGTGAAGTAT
TCATCCGGCCAACCAATGTTTCCTGACGTACGCGGGGGAGAGAGAGAGAGAGAGTTGTCA
GGAAAGCTGCAGGTTACTTTGAGACAGTCGTCCCAAATGCATTAGAGGAACTGTAAAAAT
CTGCCACAGAAGGAACGATGATCCATAGTCAGAAAAGTTACTGCAGCTTAAACAG
Sequence 5222
AGGTACTTCTGCTCCACGAGGAAGGGGATCGCCAGGCACTACCGCATCAAGCACAATAAT
GTCCGAGCCCAGCCAGAAGGCAAGAACAACCTCTTCAAGTGTGCCCTGTGTGCCTACACC
AACCCCATCCGCAAAGGTCTGGCAGCCCACTACCAGAAGCGCCACGACATTGATGCGTAT
TACACTCACTGCTTGGCAGCCTCCAGGACCATCAGCGACAAGCCCAACAAAGTGATCATC
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Table 1

AAGAAAAAGTGCTCCTTGTGCTCTTTCCAGTCGTTCAGCAAGAAGGGCATCGTG

Sequence 5223

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TGANATATAATTATATAGGGCGCCTTACCATTCATANCCANCCTTTTANANCNTNCAATA
TACCGNAGGGGACCANAATTTGGGTGTGAATTTTTAAGGTTTNTGTTTNAATTTNTGCAA
TTAAAATTCCAATTAAAAAACCTTTTAAAAACCTTNCTTGGNCCNAAAATTCNCCAAGNC
CCTTTAAGGGGNCCAANTTGGGGGGGGAAGGGGGGGGNAAAAANCCCAAANNGGGGGAAA
AAAAAAAACCCAAATTTGGGGGGNAAAAACCCCCCCCAAAAAAAGGGGGGGAAAAANCCT
TGGGNCCANGGGCCCGGNAAGGNAAAGGGCCCAANCCAAAAAAAAANGGAAATTTTTCCN
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GGGGGGTTGGGGTNAAAAGGGGGGGGGGGGTTTTGGGCCCCTTTCCGGGCCCTTTNAATT
TGGNTTTTTTGGGNCCCCCCCCAAAGNGGGGCCCTTGGGGGGGAAAGGGTTTGGGCCCAA
AGGNTTTGGGGGGGCCCCTTTAAATTTTTTTCCCAAACCCAAAGGGGGGNCCCGGNCCCC
GNGAAAATTTCCCCCCCCCCAACCCTTTAAACCCTTNGGGGAAANTTNCCCAAAGGNCCCA
ACCCCGGGGGGGGGGGNNAAAGGGNTTTTTTTTTTTTTTTGGGNAAACCCCCCCTTTGGGG
CCCNTTTCCCCCCCGGTTTTTNTTCNCCCCGGGAAACCNCCCTTNGGGGGGGGCCCCCCCC
GGGGGGTTTTTTNNAAACCCCCCCCCCCTTTTCCCTTTTTNAAAGGGGGGCCCA

Sequence 5224

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GCCTTGAAAACCCCAANGGCCCCCCTTTTTTGGGGAAATCTTTTCAATTGGCCCCCCTTG
GGGGGTTTTTCTTGGCCCCCCGNCCCAACCCGGGGNAACCCCCCCCCCCCAATTTTCTTTT
CTTTGGTGGGGAACCTTTTTTCCCCTTGGGGAAAGGNAACCCTTCCAACCTTTTTTTCCC
TTTAAANAAANTTGAAANGGGGAAAAAGNTTTGGAAAAAAGCCNTTTTTATTTCCAAAAA
GGAAAAAGNAATTGGGGGGNTTGGGAACCCCAACCCNTTGGAACCCCNAAAACCCCTTTT
CCAACAAAAGGGGCCCTTGNGGGGGGTTNGGGGGCCCCCCNGGGGAAAGNGGGGNCTTTG
GGGGGGCCCNTTGGGGGGGCCCGAAAAGGGTTANATTNCTTTCCTTTTTCCNAAAAAAAG
GGGGCCTTTNAAACTTTNNTTTCAAAAANGCCCANCCCGGNAACTTTTAAANGTAAAGCC
CCCCNTTTTTTTTTGGGAAAGNCCCCCCCCANGTCCCGTAAACCCNTTTTTTTTTTGGGA
AAAAGGGGGGGGCCCCCCCCCCTTTTNGGCCCAAAAAAAGGTTTTNAATTTAAAGGGGGG
G

Sequence 5225

AGGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGGGGCTTTCTTATTTNTCGTACT
CCGNCGGATGGTATGGGTGGGGGCTTTCTTGGGGTAAAAGGGNCCGGTGGTAAGGCTCAA
CNTTTTCTTTTCCCGNCNGGANAACCTGGGGTCTCCGTAAGGGGAAGTAAAAGTCCGNCC
GNAGGGGGGNCCTTANCCGNAAGGCCGGTTCNTTCNCTTGGAAAAAGNAATGGGCCAAAA
AAAAAACCCCAAGGGCCGGGTTGGGGGCCGGGGGCCCCCGGCCTTTCCNTTAAAGNAAAA
CCCTTAAAGGTGGGGGGAATTTCCCCCCCCCCCCCGGGGGGGCCCTTGGGCCNAAAGGGG
GGAAAAAATTTTTCCNNAATTAAATTCCAAAAAAGGCCCTTTTAAATTCCNGGAAANTTA
ACCCCCCCGGGTGCCNGNAACCCCCCTTTCCCGGNAAAGGGGGGGGGGGGGGGGGGGGC
CCNCCCCCCGGGGGGGTTTAACCCCCCCCCAAAAAGGCCCTTTTTTTTTTTGGGTTTTTT
CCCCCCCCTTTTTTTTTAAAAGNTTTGGGGAAAGGGGGGGGGGTTTTTNAAAAAATTTTN
GGGGCCCGGGCCCGGGCCCTTTTTGGGGGGGCCCGGGTTTAAAAAATTTNCCNAATTTGG
GGGGGGTNNCCCAAATTTAAAAGGGNCCCTTGGGGGTNNTTTTNCCCCCTTTGGGGGTGG
GGGTTGGGGGAAAAAAAAAAAATTTNTTGGGGGTNTTTAAAATTTTCNCCCCGGGNCNTT
TCCAAAACCNAAAAAATTNTTTNNNNNCCCAAACCCAAACCCAAAAACCCAAATTTAAAC
CCNNAAAANNNCCCCCCNGG

Sequence 5226

GCCGGCCGTGGTGGTGAAAGCTGTAANCCTCGCTCAAGTGGAAGGGAATCTTTCATGGAA
GGGGTAAGTTCCGGGTTCAAGGGTTTCNCCCGGGTCTCAAGTCTCAAGGGNTNCTCAAGT
AACCGTCAAGNGNATGGNGTCGNTTGGGGGGGGGNAAGGGNGNCCGTTAANTCNCCCTTC
NGTTTAAGNATTGGGGGGTCCAACCCGGTTGGTTGGGGGGGTGGNAACCCCCCCCCCGTT
TCTTTNTCCAAGNTAAGGTTTCCCCATTTGGAACCCANANTTTNCCCCAAAGTTTTGGGG
NTTGGCCCGNCCCCCCCAAAATAAANGGGGCCCNNTTTNATTTGGGGGGGGGGGTAANCC
AAAGGTTCCAACCCGGGGGGNCCCTTNGGGNNAATTTGGGGCCCCAACCNGGTTAANCCC
CTTTNNGNGGNCCCCCGGGCTTTCTTTAAGAAAAANCNTTAAGGTTTNGGGNNAATTCCC

Table 1

CCCCCCNCNGGGGGGGNCCTTGGNCCAAAAGGGGGAAAATTTTTCCNGAAATTAATTCCA
AAAAGNCCCTTTTTAAATTTCCGGAAATTTANCCCCCGGGTTTCTNGTAAACCNCCTTTT
CNTTAAAGNGGGGGGGGGGGGGGGGNCCCCCCCCCCGNGGTTTAATCCCCCCCAAAAANCC
TTTTTTNTTTTGGTTTTTTCCCCCCCCTTTTTTTNAAATNTTTGGNAAAGGGGGGGTTTT
TTNAAAATTTTTNGNTCCCGGCCCCGGCCCTTTTTGGGGGCCC

Sequence 5227

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTNNGGCACTTTTTATTTTTGGGCCACTTAT
TTTTGGNAAAAGGTGCTTGGNANAACNTTTTTNAAAAACCAAGAGATTTTCTTTGGGGNA
CCTGGGGGTGGGGGTNTGCAATTAATTCCCAATTCAAAGGCCTTGCGNTTTGCAAAACCT
TTTTTAAGTCANCCCCTTGGGTTGCTTCCGGTGCNCCCCCNAAGGGTGGGGGCCTTTTTT
TTTCNCCAANGNAAAACCTTNAACCTTNGGGCNCCTTTNCAACCCCCCAATTTGGGAAAA
AAGNCCCTTCCCCCAATTGGGAAAGGGCCCTTTTNTTTTCCCCCCCCAAAATTTTTTCCN
AAAAAAAACCCTTTTNGGGGGGGCCNTTTTTNTTTTCCAAAGGCCCAATTTTTTTTTTTA
AACCTTTTTTTTTGCTTAAAAACCCCGGAAAAAAGTNAACCCNTTTCNNANTTTGGGGGG
AANGGAANGGGGGGNAATTNANAAAAAATTTANGGGAAATTTTNGGGGGCCAAAAAAGGN
CCCCCTTTTTTTTTTCCCTTAAATTGGGGNTNCCCTTTTTTTNTTCCCCCAAAAAATTGG
GGCCTTTNGGTTTCCTTNGGGGGGGAAAAATTTCCCAAAAAATTTTTTTTAAATTNTTGG
GGAAANCCCCCCANCCCTTTTTTNNTTTTTTTTTTCCAAAAAAGGGNTTTCCCAAATTTTT
TTTNGGGGTTTCCCTTNGGGGCCCNANCCCCCCTTTCTTTTTCCGGGGGGGGGGTTNCCC
AAATTTGGGGAAATNTTTNTTTCCCCCNAAATTCCCNAANTTNCCTTTTTNCCTTTTTNC
CC

Sequence 5228

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGATCGTCTTGTTATCA
CTCCATTAACAGNATAGGNATGGCTTATNATTCACGGTTTTAGGGCTTCAAGGGNCTCTT
TGGGGNGNCCAATGGTANAACCATTGGGGGGGAAGGGGTGGGCTTTCNCCCGNCTAAGGG
NACTCCTNGGCCTGGGGNCCAACCTGGGGNCCANANAGACCAAGTAAATACCCCANCCAN
AAAAAGGGAACCANTTGGGGGGTAAAAGGGGGTNGGTTTTTTGGGGGGGGAAAAAAAAAT
TNAATTGGTTGGGGGTTCCGNTNGGTTTTCCCAAAAATTTTNGGGCCCTTCCCAAAGNAA
TTTCCAAAAAAATTTGGGGGGNATTTTTTTCCCAAAGAAAAGGGGCCCCTTANGGGGGAA
AAGGGGAAATTTTTTTCCAAAAAAGGCCAAANGGGAAAANAANAAGGGAAAAAAAGGGAA
AAAAAAGGGAAAAAACCCCAAGGGTTTTGCCAATTTTTTTTTTTTTTTCCTTGGGAAATN
GGGGGTTGGGAAATTTTNGGTTGGGTTTTTGGGAAANTTTTTTTAAAAAAAATTCCCCCC
AANGGAAAAAAATTTTTTTGGGGGGAAAAAATTCCTTTTTTCCCTTTTTAAAAANCCCGG
AAATTGGGAAAAAACCCCCCCCCTTGGGGGNNAANTTANATTTGGGCCCCTTGGGGGGGG
GGGCCCGGNCCCCCCCAAGGGGGNGAAAAAANCCCNTTAAACCCCCCCAAGGNNAAAAAA
ANAAAAAACCCCCCCNTTTAAAAAAAAAAAAAAAATTTTCCCCCCAAAGGGTTTTTTTTN
AAAGGNAAAAAACC

Sequence 5229

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGGCTGTTTGTGGATCGTA
TCAAGCCGCTATGGTGGNAANACCAGGCCTTTTTACTCTGTATGGTAGNTTTTTGGGGTC
CAAGTCNTTCNACCTCCCTTTGGGGNAAGNCTCCAGGGGGGGGNCCCCTTGNCCANATGG
GGNCTTNCCCAAGGGGAAACCAAGTCNTGGTTGGTAAANGGGGAANGAAAAGGAATNGNA
AGGGGAAAAGNAAAAAAANTNGGGGGAAGNCCAAATTCCAANGGGGGAAAANGNGAAAAA
GGGGGCCCAAANNANGGGAAAGGCCCAAAGGCCNTTTTTTTTCCAAAGNNAAAAAAANCCC
AAGGNAAAAAAGGGGGCCCAANGTTTNGGGGGGGGGGGGNAAAAAGGNAATTTGGNAAAGN
CCCCCAAGGGGGAAAAAAAANTTGGGAACCCCCCCCCCCAAGGGTNGGGAAGGGAACCCCCA
NCCCCCCCCAAAAANAAAAANGGAAAAAAGGGAAAATTTCCCAANAANAAGGGGGGGGCCC
CCAAAGGNTCCCCCCCCCTTTGNGCCNCCCCCAAAAAAANAAAAAANAAGGGGGGGGCCCT
TTTTTTTTTTNTTTAANCCCCCTTTTTTCCCAAAGGGTTTCCNTTTTTGGGGTTNGGGNA
AAAAACCCTTTCCCCCCTTTAAATTTGGGGGGGAAAAAAACCCAAAGGGCCCTTTGGGGA
AACCCAAATTTTAAAAAAAAATTNTTTTCCCAAACCCTTTTTNGGNCCCCAAAGGGNCCC
TTTNGGNNAAATTTGGGGGGGGAAAAAAAAAAAAAACCCCTTTTNNACCCTTTTTTTAAN
AAAAAACCCNTTTCCCAAAAAACCNTTTCCTTTTCCCGGNNAAATTTCCCCTTTAAACCC
AAACCCNTTGGGGGGNGCCCCCCAATTTTGGGGGGGGNAAATTTTTGGGGGGGGGGGG

Sequence 5230

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTT
TTTTTTTTTTTTTTTTGCCCATGTTTATTTTCCTTTTNCCAAGAAAAAAAGGTNTGTTTTT

Table 1

CAANAATTAAGGCCATTNNNCTTTTTAAAGGTCCACCCCATTAAAAGTAAGGGGCAAATA
TCTTCTATACCCCAACNCCCCCTTTACAATTTTTNAAATTTTTNAAGNGGTTCCGGGTTT
GGTTTGNCCNNTTCCCCCGGCCAANAAAACCCGGGTTTTNACCCTTTTCTCCCCCCCAAA
GNCCTTTNGGGTGCNTTCCAAATTGGGAAAAAAATTTCTTTTTTTNGGAAAAAAANATCC
CCTTGNGCCCCAANNGCCTTTGNAAANNCTTTTTTTNGGAANGGGAATTAAAAAAATTTT
CCTTCAAAACCTTATTTAAAANNAACCNCAATTTTNTTTTCTTNGGGNTNNCCTTTTAAC
CAANGGGGGGGGGGGGGNAGCCCAANTTTTTTCCGGTTNCCTANNTNCCCATNTTTTTTT
TNGAAAGGGGNTTTCTTGGNCCCCAACTTTANCCTTTAAAAANA
Sequence 5231
AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGGGTGAAGTGGTCCCGCG
GGGCCCGAAAGCCGTTTAACTTTGGNAAAAAAANAAATTAAAGNAAGGTGGTGTCAANAA
AGNCCAAGNGTCTCCCCGGAAGTCTCCGTCTCCTNGNGTATTAACCCCGGCAAGGCCTTA
GGGGAAAATTAAAATTGGGGANAATTANGGGGAACCCCGGCCGGGTTTTTCTTATTTTTT
TGGTTTTGGGGTTTTTTTTCCGNGTAAAACCNTGGNAAGGGGGCCCCAAATTGGNAATTT
TAAAAAAGGAAAGGGGGGGGNCCCGGGGCCCCCGGCCTTTCCTTAAAGAAAAACCCTTNA
AGGTTGGGGGGAAATTCCCCCCCCNCCCGGGGGGGCCTTGGCCAAGGGGNAAATTTTCCG
GAATTATTCCAAAAAGGCCNTTTAATTCCGGAATTAACCCCCGTTCCNGTAACCCCTTTC
CGGNAAGGGGGGGGGGGGGGNGGGCNCCCCGGGGGTTAACCCCCCCAAAGGCCTTTTTTN
TNGGGTTTTTCCCCCCTTTTTTTTAAGTTTGGNAAAGGGGGGGNTTTTAANAATTTTTGG
CCCGGCCCGNCCCTTTTNGGGGGCCCGGTTAANAATTTCCAAATTGGGGGGTTCCAATTT
AAAGNNCCNTTGGTTTTTTTTTCCCCCTTTGGGTTGGNTTGGGAAAAAAAAATTTTNGGG
TTTTTAANTNCCCCCGGGCTTTTCCNAACCCAA
Sequence 5232
AGGTACTTCGGGAAAGTGGCTCATGGCCTCCACCAAGCTACCTNGCCTTCCCANAAGGTG
GGACAAGGANATAATGGGTTGCAANATCTCANGGGGGGCCAAGTANGNCTCCTTTTCGGN
CTCCACNGGGGTGCCCGNCTCCTGGNCTCCAATTTTCTTGGNCCGGGGCGCAACAANANA
AANANCCAATTCTTGGNCTTCCGCNTTAAGNCCNCAACCAAAATTTNGCCAAGGAAAAAG
NAATTCCCCCCGNCCGGGGTTTTTGGNTTTTGGGGTTTGGGGGGGGTTGGNCCCCCGGCN
CCNGNAACCCGGGGGGGGTTTAACCCCCCTTNGGGCCCCCCCGNGGGGNNCCCGGGGGCC
CCGGCTTTCNTTAAGNAAAACCTTAAGGGTNGGGGGNAAATTCCCCCCCCCCGGGGGGGC
CTTGGCCAAAGGGGGAAAANTTTTTCCCGGAAATTAATTNCCAAAAAAGGCCCTTTNAAA
TTNCCGGGAATTTANCCCCCGGGTTTCCNGGNAAACCCCCTTTCCNGGNAAAGGGGGGGG
GGGGGGGGGGGGGCCNCCCCCGGGGGNTNTANCCCCCCCAAAAGNCCTTNTNTTNTTGGG
GTTNTTCCCCCCCTTTTTTTAAAGTTTGGGAAAGGGGGGGGGTTNTTAANAAATTTTTGG
NCCCGGNCCCGGGCCCTTTTNGGGGGGCCCNGGTTTAAAAATTTNCCAAANTTGGGGGGG
NTTNCCAANTTTAAAGGGCCCTTNGGNTTTTTTTTCCCCCTTGGGTTNGGGTTGGGGAAA
AAAAATTTTGGGTTTTTAAATTNCCCCCCGGGC
Sequence 5233
AGGTACCCCTCCAAGCCGGACAACCCGGGCCGAAGGGNACCGCACCATGCGGGGTAGGGG
ACNATGGGGNCGCAGGTATGACTTNATCTGCGGGGTCNGGCTTGGCGGGACAANCTTNAC
AATTGCAAAACCNCCTCAATNCAACCNCAAGGGNCCANGNGAAGGATTATTGGGGGANAA
ANANCCGNAATGCNCAAAGGCGCCCAAGGAGNAACCAACCTTGGNAATTTTTTTCAAAGG
AACCCCTTCCTTTNGGNAATTGGAAGGGAAGNNAAAAAAGGGCCACCCAANGGAAAAAAA
AAATTGGGTTTTNCCCCCNAAGGGAAAANCNTTCCNGGGGCCNTTTTNGGGAAAAAGGAA
ACCCCCCTTGGCCAAAATNGGTTGGGGGTTGGGAAATGGGGGGGGAAAAAAATTGGGAAG
GGAAACCNTTTTGGGCCCTTNCCTTNCCTTNGGGGGCCCCCCTTTNTTTTGCCCCTTTAA
ATTTTTTTNTTGCCAAAGGGCCCCCCCAATTTAAATTTTTTTTGCCAAATTNCCCGGGGT
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TNGCCTCCCTTNAACCCCCCAAAAAANTNGGGGCCCAAATTTGGGNCCAAAGGNCCGCCC
AACCNTTGGGNTNGGGCCCCTTTGGGAAAAAAATTTTTCCCTTNGGGCCCAAAAAATTNG
GGGTTNTTTTTNTTCCCCCCCTTTTTTTTTTGGGGTTGCCCAAATTCCCAAATTTTGGGGG
TAAATTAATTTAAATTGGGGTTGGGTTNGGGTTTTTTTTAAAAAAATTTNAAAAAAAGGG
TTNAATTTNCAAATTTGGGCCCAATTTTTTCCNAAAAAAAAAAAAA
Sequence 5234
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAACTGGAAGCAA
GCACAATATTCTGGGCCATCTGTTTNGGGTAAGTATACGTATGGNATANGTAAGGGGGTC
NNTTCTAAATCTCTCTCTTTGGGNTTTTANAGNAATTCCTGGGNAAACCCCTGGGGTAAG

Table 1

TAAANGGAAGTAAGNAATGNGNTTGGGGCCACACTTCNCCACCTTCCTTGNCNAACCTTC
CGNAAAATTCNTTTTTCACCCNTTGGCCTTAANTNTTCCCCAAGGGGNAAAACCAAGNNA
NGGCCTCCAAAACCTTGGGTNTTGGGTTAATTCCCTTTTGGGTTTTTTGGGGAACCTTGG
TTTGCNCCAATTGGGAAAAAAAAAAATTCTTTCCAAACCTTTTTTANTANGGGCTCCNAT
TTGGGGGGT

Sequence 5235

CTATAGGGCCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCCGGGTCAATTCAT
TTTCAGAAGCACTTTAAAGTTCTGGGATAATNTTNCTTCGTATGGGTGGNCCACCTNGGT
GGTATTGGNCTCCTGNGNAAAANCNCTTTNCNCTTCNTGGGGAAAAGGTGGGCCTGGGAA
TNTTTTTAATGGGGAACCTGGNAAGGGGACCTGGGGGTGNGNACCTGGGGGTNCNTGGNTN
GNAATTACGNAAAAAGTCCAAANAATTTTCCCCAAAAATTTTNCCCCAAAAAAAATGGGT
TAAAAATTTTTAAAGGGAACCCAAAAAAAAAAAAATTCCAANTTTTTTTTTTTTTTTTAA
AGGNAAAAAATNGGGTNGGGTTTTTTTTTTTAAANTTTNGGGTTAAAAAAAAAAGGTTA
ATTCNTTTTTTTTTTCAAAGGCCTTTTTCCCCTTGGGTTTTTCCTNAATTTGGGGGGCCT
TTTTTTTTTTTTTCANCGGAATTTAACCCAAAAACCCAATTTTTTTTTTGGGTTCCCTTN
AATTTGGGGGGNTGGGNAAAANCCCTGGGCCNTTGGGTTAAAAAAATTNGGGAAACCCGG
NCCCAAAGGNAAGGGGAAAAAAANTTGGGCCCCCCTTTNANAAAAAAAAAAGGGGGGGAA
CCAAAGGNGGGTTTGGGGGNTTTTTTTNGGGAANCCCTTNCCAAATGGGGGGGNAATTNG
GGAAATTGGGAAATTTGGGGAAATTNGGGTTNCCAAACCCTTGGGGTTGGGGCCCCCCAA
ACCCTTTNTNGGGGGNGAACCCAAGGGGGGGGGGGGNCCCGGGTTTTTTTTT

Sequence 5236

AGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAAGGCACCNTAANNTAACCGTTCCTTC
GGGGGGGTGGGGNAAGNCNATTGGGGGGGNACCCCCTGTTAATTTTCGGTTNTAANAAGA
AACCAATTTCANGGGGCTTCCAAGTATTNTTGTAAACTTTTTTNCAAGGCCAAAGAAAGT
CCGTCCTTTTGNCTCCGGGNGGTAAGTCCAANATAGGNGGGGGAACCCANGGGAAAANAA
AAGGTCCCTTTGNGATNNAAATTNGGAAAACCCAAGGTTTGGGCCCCTTGGGGGGCCCNA
GNCCCAAAANTTTNCAANCCAAGGGCCCCCGGGGGGGGGCCAAAAANGGGGGGGGTTTGGG
CCTTTNCCCCNGNAAGGCCCCTNNTGGCNAATTTNNCCCCCCCNGGGCCCCCGGNNTTTT
CTTTAANGAAAAACCTTTAAANNGTNGGGGGGGAATTNCCCCCCCCCCCCGGGGGGGNCCT
TTGGGCCNANGGGGGGNAAAAATTTTTCCNGTAATTANTTTCCNAAAAAGGCCCTTTTTN
AATTTCNGGNAATTTAANCCCCCGGTTNCCGGTAAACCCCCTTNCNTTAAAGGGGGGGGG
GGGGGGGGGGTCCNCCCCCCGGGGGGTTAACCCCCCCCCAAAGGCCNTTTTTTTTTGGGG
TTTTTCCCCCCCTTTTTTTTNAAANTTTGGGAAAANGGGGGG

Sequence 5237

CCGGGCAGGTACTGGGGTCCAGCAGTCGGAGCATGCAACTGGTAAGGGGGCCGGTCCTTC
NTTTCCCGNTTGTAAGGGTCTCCGTCTCCGNGTACCGNGNGNGNGNCNTGGTCAGGGGTA
TNCNTAGNCACCAATGGGGTCCTTGNCCAACNTGTCTAAGTTTAATCCANCCAAGNAACC
GNANCNGGGNNANCTCCCNATAAGNGGTATACCCGTGNTATGNGNAAGNTTTTTANCCTC
CCCAACNCNCCCNCCNTNTNGTTTAACCCGNCCNGGGNGGNCCCCTTGGGGGGGCCCGNA
ACCCANCCCAATTCCAAANGGGAACCCTTCCCCGGTTTTNTTCTNTTTAAAATNNTANAA
AANAAANNAAANNTATTNTTTTTAAAGNAAGGGGCCCCCAAATTNAANGAACCTTGGGGN
ACCNGCCAAGGGNGGGGGNCTTTTCAACAACCTTTTGGGTTTAANAATNNCCCNCNAAGT
CCAANCCTTTTTTGNGGGGGAAAGGGGNCNCCTNAAATNGGNCCGGGGNTTTNGGGGTAA
TTCCNAACCTTTTTNGGTTGGGGGGTTCCAATGGGGGAAATNTTTTCCCTAAGNAACCNC
CANAGTCCCCTTNGGGTTTTCNAANAAACCNCCTTGGGGGTTTAAAANAAAAANCCCCCC
CCCCAATTTCCTTTTTTTNAACCCTTNAAAAAAAAAAAAATTTNAACCCAAANAAAAATT
TNATTTNTTAAAGGGGGGAANCCAAAGGGGNGCCGTTCCNAAAANTTGG

Sequence 5238

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCAAGGGAAAGATGAAAA
ATTATAGCCAAGCATNAAATTATTAGTCNAAGGGGNACTTATACTCGCCTTATTACTCTT
TGCNTGTCCATNATANTGGGAAATTTNATATCTTAAGNATAAATTATACCTTTTTGGTCC
ANAGGGGNAGGAAGTCTCAATATANGTCCTTATAAGTACCCNCTCTCCGNANATAACTCC
AAGNATCCGNGAAGGCCTTTAACCCCTTNANAAGGNAAAACCCAAGGGCCTTTTNAAANN
AAGGNAAAGGGCCANCCCAACCCCCCCGGTTNCTTAAATTTGGNTTTAAAGGCCCAAAAT
AAAAANTNANGGTTTGGGGGGGGGAAAANGNNAATTTTTTAANTTANGGGTTTANGGNAN
GGGGCCCGGNANCCAATATAANCNCCTTAACCCCGNAAGGNCCCCTTGGGGGNTTGGAAN
NTTAANGNCCTTNGGGGTTNTTGGGTTTCCCCAANAAGGGAATTTAGGGNAAAATTTCCN

Table 1

TTTTAAAGTGTNNTCCAAAANCTTTTTTTAAAAAAAATTTTNTNGGNCCCCCCCAACCCA
NGNGNAANANCCCCCCCCTTNNTTTAAAAAAAATTCNNCCCCCCCNTTTTGGGTTTAAAA
NAAATNTTNTTTAAAAAACCCTTGGGGTNTTTAAAGGGTTTTNCCCCCAANNAANAAANG
GTNAANGGGGGGGAAATAAACCCAAAGGGGCCTTTTCNTTTTTTTTNGGGGGNAAACCCA
ACCCNTTTAANGGGGGNNANAAAAAANAAAAAAAAACCCC
Sequence 5239
ACCACCGTCGCNAAGTCTCAAGTACCAAGTCTCTTCTCCCGTAAATAAAAGGGNCCANGG
TTAAACCTNCGTTGCCCCTTTTTTCAAAAGTCTTANCCGGGNGGTTGNCCCCANAAGGGT
ATTATGNTTGNCCCCGGCCCCCTTTTCNAAGGGGGGTTCCTTCTTAAAAGNCCTTGGTTN
AAGGGGGGGGGGNCCTTTGTTTGGGGCCCANGGGGGGTCNCCAACCCCCCCNCCAATTGG
GGGAAAGGGGGCCTTCCTTTTTGGGNTTTAAAGGGGGGGGGGGGGAAAGNCCCCCCCGG
GGGNTCTTTGGGGANCCCCGCNCCAAGGGGGGGGGAAAAGGGAAAANACCCCCCGTTTTT
GGGTTCCNGGGGGGGGGGGGCCCGGCCCGGAACNNTNGGCCNTTCCCCTTTCCCCTNGGT
TAGNGGAACCCTTCCCCCTTAAAAAAAAAATTCCAACCNNCCGGGGNAAAGTTTTCCCCC
GNGGTCNTTTGGTAAGGNGGGAAANGGGGGAAGNGGGGGGTAATTTGGTTTCCGGGGGGN
NCCTTTNCCCCCCCCCAANNTAAAAATTTTGGGGGGGNAAGTTTTCCCCCNTGGNCCCAA
AAANCCCGNGCCCAAAGNTTNGGGGGGGGGGCCCCCCCCTTTTTTCCCTTTTTCCTTGGG
GTTNAACCCCCTTTTGGGGGTCNCCCGNCCTTTCTTTTAAAGTAAAAACCTTAAAGGTTT
GGGGGGGAATTTCCCCCCCCNC
Sequence 5240
TAGGGGGCGAATTGGAAGCTCCACCGCGGTGGGCCGGCCGCCCGGGCAGGTACNCCGGGG
AAAAAGGGAGAAGTACATGGGGTANAAGGGGGGTAAGTACCAGGTCTCAAGGGNTGGGGG
CNACNCTGGGCNAAGGCGGGGCCTTGGCCTCNCTTTCTGGGGGGGGCCCCAACCCTTTNG
GGTTTANGGTTGGGTTCCCCCCAAGTCNCCTTACCCCTTCTTTCNCACCANAAGGGGGGG
GAATTTTTTTNGCCCTTGTAATTGGGGGGGGTTTTCCTTTTTAAANGAAAGGCCCCNTTT
TTAAAGNCCCAAAGNCCCCCCCTTTGGGGGNAAATTGGGGGGTTTGGGGGGGCCCCCCAA
AGNAAAAAAAATTTAAAANAAAAGGGGGGGGGAANCCCCCCAAAGTCCCCCCCCCTTTTT
TNCAAATTTGGGGGGGNTTNGGGGGGTTNGGAACCCCGTTTGGGGGTTAAAAGGTTTCCA
ANCCTTTTGGGTTNAAAANGGGGGGGGGGAAAAACCCAAAGAAAAAAAAACCCAANTTTT
TTTTTTTTGGGNTTTNCCCTTTTAAATTGGGGGGGGGGGGGTTGNAAAGGGGAAAAATTT
ATTTTANNTNAACCCAAGGGTTNGGNCCCCCCCTTTTTGGGGNGTTNGGCCCGTAAAGGG
GGGGGGAAAAAGGGCCCAAAAATTTTTGGGTAAANAAAAAAAAAGGGGGGAAAAACCTTT
TTGNCCNCCCCCCTTGGTAAAGGCCCAANCCTTTNCCCCCTTGGGGGTTTNGGGNCCCAA
AAGGGGGGTTNTCCTTTCCCCCNANNCCCCCNTTGNGCCCAAACCCAAATTTTTTGGGGG
NGGTTTTGGGGGGGGGGGGCCCTTCCCCCTTTGGGGNGNGGGAAAGGGGGGGGGTAAAN
GAAACCCCTTTCCAAAANGCCCCCCCTNTTTTCCC
Sequence 5241
AGGTACGCGGGGTCCTCTGGCCGCTCGCTGCGTGNGTAGTAAGTAAGGGCCCGTAGTATG
GGCTAGGTATGGATGTAATTTGGCTCCATAGNGTCCTTCAAAGNGGTTCGTCTTNCGNGT
CTCTNGNGTTGGGNCCGNACCACCGTAATNCTTTNTGGGGGGNATAGGNAATNCAATNCT
CCGGCTATNGGGGNANAAANTATCCCCAAGNCCCCCAAAAAAAATTCAAATTTTTTTTTT
TGGGAAGGGGGAANTTGGGAACCCCCGGGGGTTTGGNCCCCCTTTTTGGGCCTTTTTTTT
CCCCCAATTTGGGAAACCAANTTTTTTNTNCCCCCCCCTTTCAAAAAAGGGCCNAACCCC
CAAAACCCAAACCAANTTTTTTCTCTTNGGGGTGGGNANTAACCCCCCANAAGGGAAAAA
ACCNATTAATTTANTTTCCCCCAANNAATTTNTTCCTTNGGGTNNGGGGCCAATGGNAAA
NGGAAATTGGNAAATNGGAATTGGGAAAAAAAAGGTTCCNTTTTCCTTNTNGGGGGNACC
CAACCNTTTTAAAAAATTTGGNAAATTTNGGTTTTTGGGGGNCCNANAAGGGAAAAAAAA
ATTGGNCTCGGCCCTTGGNCCNTTGGGAATTCCCTTGGGGGGNGGCCCCCCTCGGNTAAA
AAATTAAAAAAAGGGGGGNGGGTTTTTTAATTTTNCCGGGAAAAAANTTGGGGGNGTTGG
GGGGTTTGGGAAAAATTTGGGNAAAAA
Sequence 5242
CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTGGATGTNCATTTTGGGTGGTTATA
GNGGGTCNNCCATATACNTGGNCNTGGTCCGTATANCCAGATAAGTTGGGGTTNGTAATT
AGTCCGTCCCCTTAAAGTCCATTTANGNTGGGTTTTAGTAAGNTTTTTGGGGTATTTTAN
GTTGGGGGGGCCTTAATTTTTTTNCCTTGGCCTTAAGGGGGGGGGGGNTTGGGGNTAAAA
AGTCCCCCGGGAATTTGNTAANTTTNAAAAATTAAAAAGGAAATTTTCCCCCTGGGCCTT
AANCCAAAACCNTTANTTTANANTTTGGGCCCCTTTTTNGNAAAANTTTGGGGGGAAAAN

Table 1

TTAANNGGGGNCCTTTGGAAANNAAACCTTGGGGGGGGNTTGGGGGGGGGGGGCCCCTTT
TTCCTTAAATTGGGGGCCNTTGNGAAAGNGGGGGGGNTAAANTTTTCAANNNGGGGGGGG
GTTTGGGNGGGGAAAANAACCCCCCTTAAAAATTTTGGGGGNGGCCCCNTTGGGAANATT
TTTTNGGGCCCCCCTTGGGNCCTTGGGNCCTTTGGGCCTTTAAGGGGGGNAAGGGGGGAA
AGGGGGGCCCCCTTTAAAATTTAATANTNTTGNGGGNGGGGCTTNGGAAAGGGGGGCCCC
TTTTNGGGGNAAATTTTTNAAACCCCCCGNTTTTTTTTAAAANAAAAAAGGGGGGGGGGC
CCTTANATTTTTTTTGGNTTTTTGGGTTTGGGGGGGGGTTTNCCTTCCAATTNGNAAAAA
TTTTTGGGGGNAAAANTTTGNGTTTAAGGGGGGAAAATTAA
Sequence 5243
AGGTACGCGGGCTCCTACTTGGNATAACTGGTGGGTATATTCTTAGGAGCTTATATACNA
TGGTCNCGGACCGGGGGTCCGNCNTGGTACNCNCTCNCNTNTTCGGCNGNGTGGGNGNGT
GTAATNGTCCGCTNGTCCAATTTTTTATTCAANGATGCCANANANAACNCCATANCTCNC
NGNGGTTCAANGCACCCTCTTNCTTTCNCCGGGGCNCCCCCCGGGGGCTCCGGCATTCCT
NAAGNAAAAACCTTAANNTTGGGGGGAATTTCCCCCCCNCCGGGGGGGGCCCTTGGCCNA
AGGGGGAAAAATTTTTCCCCGGAAATTTAATTTCCAAAAAAGGCCCTTTTTAAATTGCCG
GNAATTACCCCCGGTNCCGGAACCCCNTTCTGGAAGGGGGGGGGGGGGGGCCCCCCCGG
GGGTTTAACCCCCCNAAAGGCCCTTTTTTTTNGGGTTNTTTCCCCCCTTTTTTNAAGNTT
NGGGAAAGGGGGGGGGTTTTTTAAAAAATTTTGGGGCCCGGCCCCGNCCTTTTTGGGGGG
GCCCGGGTTTAAAAATTCCAAAATTNGGGGGGGTTCCCNAATTTAAAAGGCCCTTTGGGG
TTTTTTTNCCCCCCTTGGGGTTGGGNTTGGGGGAAAAAAAAAATTTTTGGGTTTTTTAAA
TTTCCCCCCGGCCNTTNCCAAACCCAAAAANTTTTTNTCNCCAANCCCNAAACCCAANNA
NCCCNAAATTTAAACCCGGGAAAAAGTCCCCCCCGGGGGNNGGNGNAAGGGGCCCAAATT
AAAAAAAAAAANGGGTTGGGGGGTTGAAAAAAAAGGGCCCCCTTTNGGGGGGGGGGGGGG
TTGGGGCCCC
Sequence 5244
CCGGGCAGGTACGCGGGGCTCCAAACTTCACCACCTGGCCCGTGGGGTACCACTCTTGGT
TGTTNCAAGTCTAATGGNTGGNGGGTACTCCTGGGGGTTTTCTTCTTNCTCCATTCCGNC
TCCTTTGGTTCTTGGGTNGGGNGNGGTNGTCCACCTGGTGTANANTTATGTCTCAAGNGG
TTCTTTGGGTCCTGGGGNGGTTCCGNGTCCATCCAAAAACTCCTTGGTTTTTTNGNAAGG
NCCCCTTGNGAAAAGGNACCAACCCAAGNGGCCNCCAAGGTAAGGGGGGGTNCCCCCCCC
TNGGGTTCCAAAGGTCCCAACNCAAAGGNCNTTTTTTNCCCNAAACNAAACCCCCCCGGG
TTTCNTTAACCAAAAAATTANTTGGAANACCNCCTTTTTCNTTGGGNAAAAGGCCCNAAT
TCTAAAAAAAAAAGGGCNNCCTTTTNAAAGGGAAACCCCCAANGGGAAATTTGNGAANAAA
GGNAAACCCTTTCTCCAAAGGGCCNCCCAAATTTGGGNAACCCCCCTTTCAAAATT
Sequence 5245
AGGCCGAGGTACCTTGCTGACTCAGCTACATACATANAGGGCCTCAAAGNCCTNTNGTCT
TAGCGCAGGTTTCTTTTAAATAAGGGGANACNTGGGTGGGTGTTCTTCTTTNTTTTCAAC
CTTTTTTTGCACTGGGGTCNTTTATTGNGGGGGNCCAGGTATGTAAGGGGGGTTTTNCCC
GNACTCCTTCCATAGAATGGGCNCCANACTTAACCCCANGNGGGTTNAAGGGGGGTTANN
GNAAAAGGGGGAACCCCTTTTTAAGGGGCCCTTTCCAAAAACCNTTGGGCCTTGGNGGCC
TTTTCCCCTTTCGGGTTNAAANTTTAAAACCCANCCAAACCCNAACCTTNNGGNTGAATT
TTTCTTGGNTCGGGGTTTGGGGGGGTTGGCCCCCAACCTTTCCTTNGGCTTTCTTGGCCC
CTTGGNGTGGNNCCCAANTNGGNTTCAAACCCCTTTTTTNTNCCTTNAAAATTTGCCCCA
AAGGCCAACCANATTCCCCTTNNGGNCCCCCCCAANAANGGGAAAAAAAAACCCCCCTTT
AAATTTTTTTTTNGGGGNGGGGGGTTTTCCAAATTTTTCAAATTNTTNCTTNANCTTTGC
CCTCTTAAATNTCNTNCCCTTGCTTACCTTTTTAAATCTTTCCGGGTTTTCCTTNGGAAA
NTGGNTTTTTTTTTTCCNAANNNTNTTTNGGGGGGA
Sequence 5246
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCGTCACTTACTCTTC
CCTGGGGTTCGGGTGTAAGNTGTGTGTTTATANTTTTNTGGTCCGTCCGNCCCCTNGNCA
TNGTCTCTTTNCTCTNTGGGGGAATAGGTGGGGNTATGNCNCCGGTNTTTCCTTCCAAGG
GNCCTTCCCCCTTNTTCNCGGGGNAAAATTCGATAAAACCCCTCTTGNGATTTNCNCCCC
CCCGTTTACNACCNCCCCGGGGGGGGGTTCNAACCCCAATTGGGGGNTTAAGGGGGCCCA
CCCGGGGGGNGGGAACCTTTAACCCCAATTTNCGNAAAAAAAGGGTTTGNAANNAAGGGG
GGNCCAAAAACCCGTTTTTNCANAAAATNGGGGGGNTTCGGTTCTTTCCCNGCTCCAACC
CCCCTCGGGCNGATTAACCCCTTNGGCCCCCCNGGGNGGNCGGGGGCNCCCGCCNTTTCC
TTAAAAAAAAACCNTTAAGGGGNGGGGGAANTTCCCCCCCCCCCCCGGGGGGGGCCCTTGN

Table 1

CCNAAGGGNGGAAAAATTTTCCCGGAAATTTANTTCNAAAAAGGCCCTTTTAAATNCGGG
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GCCCCCCCCNGGGGGNTAANCCCCCCCCAAANGNCCTTTTTTTTTTTGGTTTTTTCCCCC
CCCTTTTTTTTAAAATTTGGAAAAGGGGGGGGGTTTTTAANAATNTTTGGGGCNNGCCCG
GNCCTT

Sequence 5247

TTGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGTGGTGGTGAAGCTGTAGCCGCGCTCGG
TGAGGATCTTCATGAGGTAGTCAGTCAGGNTCCNCGGTTCAGTCTCAGGNTCCAGACGTC
AGGTATGNGTCATTGGGGNGAGGGGCATACTCCCTCGNTAGTATGGGGCACCAGTTGGTG
GGGGTGTACCCNCCGNTTCACCCGGGTAGTTTCCCAATTCCANCGGAATGGCNCCAAGTT
GGGGNTTANCCCCNTNGCCCCCCGGGGTCCGGGCCCCGNATTGGTTTAACCTCCCTNCGT
TCCCGNTTTTTCGGCCCCCTTTCCAAGGGGCAATTACCAACNCCGGGAAATTGGCTCAAG
NCCCTTTGGGNCCAANATTGGGGCCAGGCTCCGTCCCGGCAATGGGGTTCCCCTGNGGGG
TNGGTANGGAAANGTAATTNGGTTTGTCCAANTCCTTNGGNACCNCAACCTTTGGTTAAC
CCCTTTTAATTCNAACTCNCNAANTGGNTTTGGNAACCGTAAGGGGGG

Sequence 5248

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGCAAGGCAGGCT
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GTGCNCAAGGCGCCGGTGGGACCCTTGGTGANANATGCGCAAGGCCTTTGGCTCCCTGCT
CCGTCCAACNCCCCAAACTTGGGGGAAAAAAAAAAAAAAAATTCCCAAAAAAANCNCTTN
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TTCNTTAACCCCAAAGGGGGAAGGNAAATTTTCCNTTTTTTGGGCCCGGTTTCAAATTTC
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TNTTTTTTTAAAAAAACCCTTTTTNCCAAAGGGNAAATTGGGCCCTTTTTTAAAAANGGG
GGGGAAATTNGGGAAANTTCCCGGGAAGGGNCCCCCAACCCCCCNGGGAAATTGGGGTTT
CCCAAAAANCCCAAAAAAAAAAAATTTAAATTTNCCCCCCCTTTTNTTNAACCCCCCTT
TTTTTTTAAAAAAAAATTTAAAAGGGGTTNTTTTTTTTTTTTTTCCTTTTTTTTNAAAA
ATTTTTTAAAAAANGGGTTTTNTTTTAAAAAAAAAGGGNAAAAAAAAAAAAACCCCCCTT
TTAAATTTTTTTAAAAAACCCGGGAAANGGGTTGGGGAAATTTAAATTTTTTAAACCCCC
CGGGGGGGGGGGNAANAANAAAGGGGTTTTTT

Sequence 5249

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AAGGGGAAAATTCCTTAAAAAATTGGGGGGGGGGCCANAATTTTTTTTTTAAAACCCAAN
AAAANCCCCCANGGGGGCCCAAAANAAAAATTTAAATTCCAANCCAAATTNAANTTTAAC
CCCCCTTGGGAAAAAATTTAATTTAAAAAGGGGGGGNTTAAAAANCCCTTTCCCCCCAAA
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TAANCCTTTTTTNAATTTTTTTTNGGGAAANCCAAAAGGGGGGANAAGGTTGGGGGGGCC
CANTTAANAAGGGCCCAAAACCCNTTCCCAAAGGTTGGGGTNGGGTTNGGGCCCCCCCCC
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TTCCNAATTTNTTTTTTTGGGGGGGAAGGGNAAAAANAANAAAAAAAANGGGGTGGGGTT
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Sequence 5250

CCGGGCAGGTACATCCCTGGCCTTTTGGCATCCAAGTTCTGGCATGTAAGGGTCTNCTTC
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TNAATTGGGNCCAAGAAAAAACCCCAAAGGGCCCTTTGGAAGGGGCCTTGGGGGAANTTT
TTGGTTGGTTCCCGNAAATTTTCCTTNGGGGGTTCCTTGGGGGTTTTTGGGTTTCTTGGG
GGGGGCCCTTTTGGGCCTTTGGGGGAAAAGCCCTTCCCCCTTTTTCCGNAAAAGGGGCCC
CCTTGGNCCAAAGGCCNAAAGGNCCAAAGGNCCTTCCCCCTTTCNAAAAAAANTTCCGGG

Table 1

CCCGNNCCCCCCCGNAAAAATTTCCAAAAGNCCAANCCCCCCGGNAAATTNCCCGGGCCC
CCTTTNTCCCCGGNCCCCCTTTCNGGNCCNTTTTTAAAAAGNCCCCCCCCCCCAAATTTT
TNCCCCCCCAAAGNCCCAAANNCCTTTTTTCNNGGGGGGGTTTTTTCCCGGCCCCCCAAT
TTGNGGGGCCNCCCCCCTTGGGGG
Sequence 5251
CACATTCATCCCAAGTAAGTATGNGTCAGTAGNCTTTNCTGCGNCAACATGTATTTATCT
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TGGCTTTTCCCATGGGGTCCTCCCCTGGGNAAAANTCTAATTCTTTTTGGTCCTTTGNCC
TTGGTTNCCCCNGGNNAAATTATGGGGAAAATTNATNAAGGCCCCACTTGGGGANGTAAG
TAAAAAACCCCNCGGCTAGGGTTTTAATTTT
Sequence 5252
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TTCCAATTCATTGATTTTAGGGTGATNAATGGGAAAAAATTTAATNCCTTTTTNTTCTTC
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CCCCTTTTTNCCTTTTGGGGTTTCCTTTAAAAANCCCCCCAATTNAANTTTTTAAAAAAG
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CAAACCCAAAAAATTTTTGGGTTTTAANGGTTTTTTAAAAANCCCAAAAAGGGTTGGGNC
CCTTAANTTTTTTCCTCCCTTTNGGGGGGNTTTTGGGG
Sequence 5253
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CCGGGGTTNAANCCCCCTTTGNNCCNCCCCCCGNGGGGGNNTCCCGGGGGNTCTCCCGGG
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ATTTCCNAAAAANGGCCCTTTTTTAAATTCCCGGGAATTTNANCCCCCCGGNTTGCCTGT
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GAANCCCCCCCCAA
Sequence 5254
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CAAACCGGNCCCCCCNAAAGNCCTTTAAATTTTTTTTTTTTTTTTTGGGGTAAAATTTTT
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GGGGAACCCCCTTTTNGGGTNGGGAATTCCCCCAACCCCCCCGGGCCCNTTNTGGGGGGG
GTTTCCTTTCCCCCCCCAAAAAAAAGGNGTTGGGCCCTTNGGGGGGGGGTAAATTTTAAAC
CCAAAGGGGGGNCCNCCNTTGGNAAAGGGCCCCCAAACCNTTGNGGTNGGGCCNCCCCCN
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Table 1

781/863

AAGNGGCCCAATTTNAAAANGGGGGGAAATTTTTTTAAAAAAGGGAAAAAGGTTTTTTTA
NGGTTTGGGGGGGGGGNAAAAAAAAAGGNCCCAATTTTGGGAACCTTTTANCCCCGGGGG
GTTTTTTTTAAAAAAAAAAA
Sequence 5255
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAGGGTAAGCATTAAC
AATATTATTCAAAATGTTATATAGAGTTCAACTGTATACAATAGAGCATTTATTAAAGTG
TGTCCAAAGCGCTTATAAATAAAGCATCTTCGAGACAGGCGGCTCACTTGAGGTTAGGAG
GAAAGCAGACTGGCCAACATGGTGAAACCCCGTCTCTACTGAAAATACAAAAAAATTAGC
CAGGCGTCATGGCGCACCTGTAGTCCCAGCTACTGGGGAGGCTGAGACACGAGAACCGCC
TGAACCCGGGAGGTGGAGGTTGCAGTGAGCCAAGATTGCACCACTGCACTCCAGCCTGGG
TGACAGAGTGGGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAANGTNCCTGCCCG
Sequence 5256
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CGCTCTAGGCCGCGTCGCGCTCTTAGCCCCGAGGCCCGCTGCAATCCCCGTACCT
Sequence 5257
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CTCCGCGCCTGGGACGATTTCTTCCCGGGTTCCGATCGCTTTGCC
Sequence 5258
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TGCCCAGCACAAATATATTTTACTTTAGAGTAAAATTCTGTGGGGGAAGATGGACAATAT
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GTATTTTTTAAAATTGATGATGTTGAATAGTAAATAAATACAGTATTTAAATCCTTTGGA
TCAATNCANAAAAAAAAAAAAAAAAAAAAAGGT

Sequence 5259
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CCCTAACAGGCTCAGTCTCATTAGAG
Sequence 5260
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGG
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CACCAGGATTTTCAACTGANAAATTTAAGAATAATTGAACCTAACGAGGTGACACACTCA
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CGGCAGCTGANACAAGCCATGAGGAACTCTGAGTATGTGACCGAACCGATCCAGGCCTAC
NTCATCCCATCGGGAGATGCTCATNAGAGTGAGTAT
Sequence 5261
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CAAGGTTTCACCATGTTGCCCAGGCTGATCTTGACCTCCTGAGCTCAAGTGATCTGCCCA
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TCTCTTTCCTGATGTTGTTGNGCCCAAATAGCTTG
Sequence 5262
TTCACCAAGTAAATCNTTCACCACCGGGGTAGNAAGTAAGNACCCCCTTATTGGGGCNTG
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GCACTTTTGGTTTAAAAACCATTTANAGGNAAGNAAATTAACCACCTCCAAATGGGGGGA
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Table 1

TCCACCTTAAGGGNTGGGAAAAACCCAATTTGGTTGGTCCAATGNGGGGGGGAAAAAAAA
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TTNCCAATTTGGGAAATTAAAANAAACCCAACGGGNTNTTTTTGGGCCNTTGGGTTTTTT
TGGNAAATTTCCAANTTAATTTAAGGTCCCCCCTTCCCCNAAGNNCNGGGGGGGGAAAAA
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GGGGGGGGCCCCCTTTTTNTTNGGGGCCTTTCCCCCCNTTGGGCCCACCCTTAAAAAATT
Sequence 5263
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NTTTTNAAATACANTGTATTGGGGTTAAACCCAAACAACTGNGCTGNCANGCTTTTTAAA
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ACNNNNTTTCCATTNCGNAANNCGCNTTAACCTCCNCCCAANAATTNGATTGNTNTCTTT
TTTTTTTT
Sequence 5264
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Sequence 5267
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GAGGCTTGACAACTGGCAGTAAAGACAAAGATGTCAGGCCTGCGGCCCGGCACTCAAGNT
GGACCCTGAGATTGAGCTTTTTGTAAAGGCTGGAAG
Sequence 5268
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AAGCCAAGGGGAATGAAGTGAGGCCAGTGGCCGGGTCTGCTGA
Sequence 5269
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AAGTCAAATTGAAAGGCCTGGAATGTCACTCCCGCGTACCTGCCCG
Sequence 5270
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CACAGAGGCAATCAGACTAGCATGTGGCGTTTCCTATGGAGGGCAAGATNGTCANGAACG
GGNANGAAGCTTGCTGGTCACAGCCCG
Sequence 5271
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Table 1

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CNCACTTGATGCTAGTGNCAGGGGTAGCCCCCACTGACTCCATTGGTTTTGAAAGGGTTA
TGTCTTTTCATNTAAAGTTGTCCCCTATTCTTGGTATGGATAGANCTTTTCGGTT
Sequence 5272
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AGGGGCATGGGTACCTGCCCG
Sequence 5273
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Sequence 5274
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Sequence 5275
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CCAGAGAGAAGTGAAAAATATCAAAAATTAAAATCCTAAACTTGAAGACAAGTTGAGAGA
CCATTTAGTCTGGCCACCTGTATCCAAGATTCATTTAAAACCAAGCAGCGGCCAGGCACG
ATGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGCCA
GGAGATCAAGACCATCCTGGCTAACACAGCGAAGCCCTGTT
Sequence 5276
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AGGGGAATGGCAGCAGTGAGGTAGATGGGAGGACATTTCTGGTCAGGGAACTGGCATCCC
ATTCAGCATCTCAGGACTCACAGGCCAACATGTGTTCCATGGCTGGGAATTGCCTACCAC
CCACATCAGCTTCTGTTTACCTTTTTGGCATCAAATAATGAACAGTGTTTGGAAATCTTT
CTACAGGCAATTACCTCCCCAAGAGAAGCCTTCCTTATTTTGGAGTAAGGTCCTAAGATA
GCTGGATGAATCAGGAAAACCATGTCCCCTCTAGGTATTATTAATATAAGCAGGAAGGGG
ATCTAC
Sequence 5277
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AGTGGAGTCCATATTCCTCACACTCCAGAGTCCAGATAATGTCACTGGCCCTCCGCAACA
TGGCCTCAAGTCCCGATCTTCTGCTCAGAATACTGTGTTGCTTGCTGCAGTGAAATGGTC
CGATCAGAAACAAAGCACCTCTCAACAGCATCGCTGATTAAAGGCACAGAATCTTCTTGA
TTTATTTTACAATTTGGTAGCTCATTTATATCCAGTTCATCTTGCAAATCACTTCTCTTT
T
Sequence 5278

Table 1

784/863

CCNGNCAGGACNCNGGGGTTGAAAACCTTTGCTCATTTTTTAATGCGAAGGCTAAGTGTC
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TATCGAAAAATTTGACCATTTCTGNGNCACCTTATTTTTTTTTTATTGNGGCCCAATTNC
AGGAATATTGTCTTATNGNTTCCTTANAGGGACCAATTGGCCCTTGCNTTGTTAAGCAAA
ATAAGTCNACCANNTTACCGTTNGGGTATNGGAATAAAATAATTNTATTTCNCNCCCCAG
NAAAANGGCNAAGGCCAATTGGAACCCAAGGAAAAATGGGCCCNTTTCGGGGGGNGGNAN
GGCCANCTTTTTGGGGAAAAAGNGGGN

Sequence 5279

CCGCGGTGGCGGCCGCCCGGGCAGGTACCAGCTACTCACTACCTGGGAGGCTGTGGTGGG
AGCATCTTTTGAGCCTGGAAGGTCGAGGCTACAGTGAGTTGTGACTGTATCACTACACTC
CAGCCTGGGAAACAGACTGTCTCAAAAAAAAAAAAAATTAAACCAACAATTGGCTGCCTT
CTGACCTTCACATCCTGTATAGGAATGGAAATGGTGGCTAAAGTCAGCACTGAAGGTCCC
ACAAGCTCTCCCTGCCTCCCCTCTATCTACTGCATGATCCTTCAACTGAGGCCAGCCCAG
GTGCAGANTAGCTTGCAAAACCCAAGGGACCCCGCGTACCTTN

Sequence 5280

NCGCGGGTGGCNGCCCGCCCGGGCAGCGTTACAGGGTAAGTGCCTTTCGGGCAGGGCACA
ATGGGTTCACTGCCCCATGACCTGGATACCTTGAAAGCACACCATTACAGGACAAGTGGG
GCCCCCAATAATCACCCCGAAGCANGGGTGCNTTTTTGCCCCCCTTGTCCAGCCGTTCCT
NGNCAACACCAGGCCAATGGAACCTTTGGTTCATCCCTTTTNTGNAAGGGGTTGGAAANC
TATNGNNNACAACCACNACNNNTTAATTTTGNGGAAAAAAAT

Sequence 5281

CCGGGCAGGTACGCGGGGAGGCCCTTCGACGGAGAACAACAAGAAAGGCGCTTCCGGTGT
CTGTTGCCAGGCGCGGGCCCAGTGGGCCGTANGGGCGACATTGTTGCCGTCGTTATTTCC
CCCCCCAGTCCCGGGGATGGAGATGTCGGGACTCAGCTTTTCAGAGATGGAGGGCTGCCG
TAACCTACTTGGCCTACTGGACAACGACGAGATCATGGCCCTATGCGACACCGTCACCAA
CCCGCCTGGTGCANCCTCAGGACCGCCAAGATGCTGTTCATGCAATATTAGCATACAGTC
AAAGTGCAGAAGAACTTCTGAGGCGTANAAAAGTCCACCGAGAAAGTTATATTTTAAGTA
CCTCNGGCCGCTCTAGAACTAAGTGGATCCCCCGGGCTGCAAG

Sequence 5282

GCGGGCNCGCCCGGGCAGGTACTTACTACAAAGCTTCCAAAGGGAAAATTGCNCTATTAA
ATGGGATGGGCTCCAGAAGTCAATCAAATTTTCGAACGTTTTTACCTTCCAGCCTAGTGG
ACCGTAATGGGATGTTTTNGGGTGTGTGNTAATGGTTGGGGAAAGAATNACCTTGGAATN
CCCATTGGGNTGGTTGGAAAAGGNCCTTTTTTTTCNAAAGGGGAGTTTGAAAANTTAACC
CAAAATTGAATTNGTANAATNCCGGGNTCCGNAAAATTTTGGAAAAAAATGGGGNGGGTA
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Sequence 5283

GAGCNTCCNCCCGCTGGTGGGCGGGCCGAGGTTACCAAAGGANGGTTTTTAATTTCACAG
CATCTTCCCAACAGTGCAACTTTGGGGTGAATGNNGGACCCATTCTGGTATTTGNAGCAN
AAAATTTTTCTTAATGGGAAAGGGAAAGGGTTCCCTTCTGGCCAGAANACAAANNTACCA
GNAAGGGATTTTTTCAACCTTTAAACNACCTTGGNTAAGCCAANTNNTCTTGGGTATTGA
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Sequence 5284

CGCGGTGGCGGCCGCCCGGGCAGGTACCCTGGTGTTCTTCTGATTGGCACTGACTCCCAC
ACCCCCAATGGTGGCGTGCCTTGGGGGCATCTGCATTGGGAANTTGGGGGTGCCCGATGC
TTGTGNGATGTCATTGGCTTGGGATCNCCCTGGNGGAAGTTTGNAAAGATGCCCACCAAA
GGGGTGNATATTGGCTGTTGAAAGTCTTGGAACNGGNGCCTNCNTCTTCNTNTCCGCGNT
TTGGGTTCCCTNNAACCCCCTAAAANGAAATTGGTTGNAATTCCCTTTGNAATGGGGTTG
GGNNTANGNGGCCCAATTCCCNTTCTACCGTGNTTGNANAAAAGNGGTTGGGNTCANCCA
AGGGGNTGGCCAAATTTCCNNTTGGGGTANAATTTAACTNCAAACNGGGGGACCCCTTGG
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GGNCCGGAACCTAAAATTCCTTNGACCAAAACCAATTNGGGGGGTTTGNCNAANGAAAAA
AATT

Sequence 5285

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Table 1

GCNGTNAGTCCAGGCCCTGAATGGANTGGTCTCCANCCGGTTGGCGTCACATTNTNGCAC
TTGTGGGCCGTCTATGCGTCCCACANTAAGTANCANACTGGNAAGCATCTTAGTGGTTCC
CACCTCANGCNCAAGNCCAAGTACTTACTTAATGNAAATCAAAGGANGACATCCTTTTCC
CAGTCATGTTCCANTTTGGTAAAGGGGGGCCATCCCTTGNAGGGGAAAAC

Sequence 5286

AGGTACCTGCCTGCTGGACCCCTCCACCTGGAGGCCAGCCCATGTCTCAGGCCCAGCCCT
AGCCTCTTCTCCTCAAATTCTAAGTGTTTTCTCTTTAGGTTTCCCTGGCTTTGTGAATGG
ATCATGTGTCTCTAGGTATAAACCTGACATCATCTTTCCACCCGGCTTACCTCCACCAGA
TCTCCCCAGTTCTGTCTCCATCTTCTACCTGCAGCTGCTCTGTTCTCATGGTCACTGCTG
CATCACTGAGTCTGGACCCTTGTTATCATTTTCAAACTGGCCTCCACGCCCTGCTCCCTC
CTCCACCTCCCCATCCTCTTGTCTCCCCTCCCCTCTGAATCCAGCCCAGCGGGGCTTCTC
CTGCCTCCATCACATCACAGAAGTCC

Sequence 5287

AGGTACTCCTCCATGGCGCTGGCGTCTGGCCGCGCAGTCAGGCCACGCCCCCAGCGTAGA
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ATGTCACGCCAAGGACGCACTCTCATTGGCCAATCGAGTTTCTTGCCATTTGTTCATTGC
CTCCTGAGCGTAGTCCAGTTACTTTCAGGCTCGGGGAGTGAAGGCCTCGTTGAGAGAAGG
TCTCATTCGGTGTTTTGGGAANAGAGTCGTGTGGGCCCAGGTATCNTANCGGCNACACGA
GAGAGACGGGCGGTGTGACAGCCTTCCACTACCTGCACGAGTGTATTGGTCT

Sequence 5288

CCGCGGTGGCGGCCGCCCGGGCAGGTACGTTGACCATCTTTGCAGCAGGGCTGTTTTGTC
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GAGAAGAATTACATGTCAGTGTCTTTTGGAAAACTGAGCTGGGACAGAAAGGGACTGGGG
GCTGCCCCCCAACCTGATCCCTTNTGAACAAAGACGTCCACAGTGTTCCTGGCACTCTGG
CTCAGGAAAAGGGGAGACTCTGCTGATTCTGTGCATTG

Sequence 5289

[redacted]
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GAAANTNCGGGGGGTGTNATTGCNTTGNCTTCCGAAATTTCCATTAAAAGAANACCAGGG
GGTAGGGNTTTNAANAAAAGATAAGGGGGTTTCTTTTGGGGTTGNNACCAACAAAAATTT
NTTTGNTTTTGCTGGTTTAAGNAAAGNTTTTTCCAANTGGGGGGGAAANAAAAGTTTGGC
CCNTTCCCAATTAAATTTGNGTTTTGGNTTTTCCCCTTNAAGGGGNAAAAAGAAATNTTT
GGTAAATTTTGGCGTTTGGAAAGGGGGGGTTGGCTCTTNTAATTTTTAATTTNACAATTA
ANAATTGGTTTTTCGGGGNNGGGGTTAAATTNTTCNGNGCCCTTTTTTTNGAANAAAGCA
AAATTTTATGGGGGNTCTNAAAAAGGNGGGGGGGC

Sequence 5290

NCNGCGGTGGGCGGGCCGAGGTNCAGNTTTTTAGTTTGAGAAGATNAAAAAGTTCTGGAG
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ATATAAGAACAGTTTANAAATGGACCANCATTTTGGTGTTTATTATTTTTTAACNCACCA
AATTAAAAAAATGGTTTNTTTGAATTAAAA

Sequence 5291

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TTGGAAAACCTTCCCCAAGNGGNAATGGGGGAAAATTTTCCTTTTCCCCTTCCCCTTTCC
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TTTAAATNCCNTTAAAAAAAAAATTTGGGAAATTTTNGGTTNGGNCCCCCTTTCCNTTGG
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TAAATTGGGTTGGTTNGGCCCAATTTTTGGNGGNGGGGGTTGGGGGGGGGGGCCTTTTNG
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Sequence 5292

Table 1

AGCCTCCACCNGCGGTGGGCGGGCCGAGGTACNCGGGGGAGACGGAACTTCNGCACGCTG
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GTCCTTCTACTCACTTCAACCGAGGCCCTGCCTACGGGGCTTGTCAAGCCCGAAGGATTA
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GNCNAGTGTAGGCCCTGGNAGNNAGTAAGATGGGGTAATCCGTAAGNGNGGGGTNNTGGA
ACCAAGGGTCCGCCGGTTTCTGACCAANTTTTGNGGNTANAGCCAAAACCTTTTTCCAAT
TGNGGTAACCAGGGTTTCCTTTCTAAAANANGNGAATNTGGGGGCNAATTTCCCATTTTT
TCCTTNTTTGGNCCNGNAANAATTNTTCTAATTCCNAAAATTAAAAAAGTCCTTGGGNCT
AACGGNCCCAATGCGTACCTTCCCCGGTTNGGTAAANAGGAAAANNGTAAATTCCAAAAC
TTGGNAAGGGTTACTAAANACCCNCNANAAAAAATTTNTGGGGGCCCAACCNCCAAGGNC
TTTNGGGGTNAGGTNAAAAACNANNTNCNGTGGTCAAAAACCCTTTTT
Sequence 5293
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GCATCCTCGACTTCCCAGGCTGAAGGNGATCNCTCCCGTCTNAAGCTTTGGAGAAGTAGC
TGGAAACCACAGNGTGTGTTGCCCACCCNTGGCACCAGCATAGNTTNTTTAAAACTTTTT
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TGNAAAATTTTGGTT
Sequence 5294
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ACNTTAACATTACTTATAGTTGCAAACAATAAACCTTTTTATAATGGCCATTANGGTAAA
NCCATAAANTATTTCAATGGTGNAACTTTGNCTTTTTAATAT
Sequence 5295
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CCTGCCTTAGCCCCACAAGTAGTGGGACTATAGGCACACAGCACCGTGCCCATCTAAGTT
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TCATCAAGATGACTTATT
Sequence 5296
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GCGGCCGCTCTAAGAACTAGNTGGGATCCCCCGGGCTGCANGAATTTCGGATATTNAAGC
TTATTCGATTNCCGTTCAGACCTCGAGGGGGGG
Sequence 5297
CCGGGCAGGTACGCGGGGAGAGCTCTCGGACTTTCGGAAGCTCTCGGTGTGGGTGCGACC
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AACTAGGTGGATCCCCCGGGGCTGCAGGAATTTCGATATCAAAAGCTTATCGATACCGTC
CGNACCTCGAGGGGGGGGG
Sequence 5298
CCGCGGTGGCGGCCGGACCTTAGAAAGTCACACATCTGCGCGCCTGTGCGGCCCCTGCTT
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AGGACGCGGGATTTTTGGTTTGGTATTTTCTCTGGTTTTGGGT
Sequence 5299
CCGCAGAGGCAAGAAAGGGACCCCACTTGCTCCCATGCCCACCTCAAGAAAAAACATAAA
ACANTTTTTTTTAAAAAANGAAAAGAAATCTACCTCAGTTGACAGGATTCCACCTTTAGG

Table 1

GTTNCTTCAACTTTTAAGTCTTACCTGTTGAGTGTAACTTTTGTAGCATCTTGCTTTTCC
AAGCAAGCTANTGAGGCATGACAGAGCAGAAGTNTGTAAATGTCCCTGTGATGGACCTCT
TTCTAGCATGTACGCAAGTTTNATTTTTTAATAAAATTTGGGTA

Sequence 5300

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGAGA
ACATCATGAAATCCAACATTGACAAGAAGTTCTCTGCGCACTACGACGCGGTGGAGGCAG
AGCTCAAGTCCAGCACCGTGGGTCTCGTGACCCTGAATGACATGAAGGCCAAGCANGAGG
CTCTGGTGAAGGAGCGGGAGAAGCAGCTGGCCAAGAAGGAGCAGTCCAAGGAGCTGCAGA
TGAAGCTGGAGAAGCTTCGAGAGAAGGAGCGTAAGAAGGAAGCCAAGCGGAAGATCTCCA
GCCTGTCCTTCACCCTGGAGGAGGAAGAAGAGGGAGGCCGAGGAAGGAAGAGGGAGGCCG
GCCATTGTATGAAGGGAGGGAGATGGAAAGGGGAAAAGAAGATCACCCACCGAAAGAAAG
AGAAA

Sequence 5301

TCACGGTCTGCGCGATCATCCAGCTCACCACGATGTGCGTGTTCTTGGGGTCGGGGAGCA
TGCCCTTGGCCGTATCGTACTTTTTTTTTTTTTTTTGGTATAACAGCTCTTTATTTCTG
TGAGTTCTACTAGGAAATCATCAAATCTGAGGGTTGTCTGGAGGACTTCAATACACCTCC
CCCCATAGTGAATCAGCTTCCAGGGGGTCCAGTCCCTCTCCTTACTTCATCCCCATCCCA
TGCCAAAGGAAGACCCTCCCTCCTTGGCTCACAGCCTTCTCTAGGCTTCCCAGTGCCTCC
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Sequence 5302

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AAAAGGNAAATTNTTTTTTTTTTTACAACCTTAAGTNAATCTCCAAATAATAAAAACTNTC
TGATCTGTATTATATCCAGNNGTTGGGTCTTATATTTTCACCCACAAACAACTGACACTG
CTATCTTTTACTGTATTTTTAAAAATTTAATTTGAAAAGGTCACCCAGAAGCATTTNTGA
AGGAAATGGTTCTAGA

Sequence 5303

CCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNCGGGGAGGGAGCTGGA
GAAAGAAGGAGGGGGAGAGACTGCCAGAGAGGAAGAGAAAAGAAAGGAAGAAACATTAGA
AAGAAAAAGGAGGGAAAACGGTTTAAAGAGAGATCAATTACCCACCCTTAAATAGC

Sequence 5304

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGGGGGAG
CTGGCCGGGGCTCACGGTGTTTGACCCGTCGGTCGTGCGTGAGAGGAAAGGGAAGGAGGA
GGTCCCGAATAGCGGTCGCCGAAATGTTCCGGTGTGGAGGCCTGGCCGGCGGGTGCTTTT
GAAAGTAGAAGCCTGGTGCCCTTGGTGCGGACCCGTGTGCGTCCGAAGCCCGAGGCAGAG
GAACCGGCTCCCAGGCAACTTGTTCCAGCGATGGCATGTTCCTCTAGAACTCCAGATGAC
AAGACAAATGGCTAGCTCTGGTGCATCAGGGGGCAAAATCGATAATNNCTGTGGTTAGTC
CTTATTGTGGGGCTTATCAAACAGTAGGAGGCTGGTGCCCTATGCCTACAAGA

Sequence 5305

CCGGGCAGGTACTTGCTTCTGCCACCTCCGCTGAGTAACCTGTAGGCATAGGTGTCAGAT
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CTCTCCCCGATGCTTGCCGGATGCTATAAGGCAGGCACTGGACAGGGGTGCATCTGGAAT
GAGCTCTGCGAGCAGGTACATGCTGCACGCACACAAAAGACACTGAGAATATTTTTAAGA
AGCCACACATCACAGAATTTGATAGTCAACTTCATGCAATGAGTTCCTTTTATATTTCAT
CAAAAGGTTTACTTGCCCCTTTACTTGTTCCAAATTTCCAAGGATTAACTTCTTAAAATT
TGAAAAAAGTA

Sequence 5306

CCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTTTGGCTTACTTAAC
ACATATTTTATTTATTGGAAAAGGCATTGACACTTAGCTCANATTCTTAACCTTGCCATC
CATATCTAAGTAAGCTATTTTATTTTTTTATTNTAATTTTNGGGTGGAGTCTTGCTCTGT
CGCCCAGGCTGCAACCTNTGCCTNTCAGGTTCAAGCNATTNTCNNGCCTNAGCCTNCCAA
GTAGCTAGGATCATAGGCA

Sequence 5307

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACNCGGGATANAGTT
TGCTTCTGAGTGTCTGCTTTGTTTAGTAGAGGTGGGCAGGAGGAGCTGAGGGGCTGGGGC
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CCCCTGGNAACCNGGAGTGGCCCTTGGCTCACTGNGNTCTGCATGGNNNGGATCTGAATT

Table 1

AATTGNCCTTTCTTCTAAATCCCAACCNAACTTCTTCCAACCTNCAAACTGGCTGTAACC
CCAAATCCAAGCCATTAACTACACCTGGACAGTAGCAATNGNCCTGATTAATCATCTGGC
C
Sequence 5308
CCGCGGTGGCGGCCGCGGCCACTGTAACCAAGAAAGTGGCTAAGAGCCCAAAGAAGGCCA
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TAATTTCTTACAAAAAAAAAAAAAAAAAAAAAGTACCTCGGCCGCTCTAGAACTAGNTGG
ATCCCCCGGGCTGCAG
Sequence 5309
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GAGGCCAGCACACCAAGACCACTGGCCGNCGNGGCCGCACCGTGGGTGTGTCCAANAAGA
AATAAGTC
Sequence 5310
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CCTGAGAGTCTCACTCTGTCACCCAGGCTGGAGAGCAATTGCACAAACACTTGGCTCACT
TGCAGCCTCAACTTCTT
Sequence 5311
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GATGGGCTGGGCGCAAGCTTCCCAGCATGCTCTGCAGCTTTTTGGTCTTCACCTTTCCCT
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Sequence 5312
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CCCCGATCCCCTCATCAAGGTGAATGATACCATTC
Sequence 5313
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Sequence 5314
NCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCCCTAGCGCA
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ATCTGTGGCTGAGAAATGGATCCCTGGAGAGCTGCTAAGTGATGCGGGCTGGCTATCGCC
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Sequence 5315
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GCGGCGGCGGCCAAGCCCAACAACCTTTCCCTGGTGGTGCACGGACCGGGGGACTTGCGC
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Table 1

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Sequence 5316
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CCGCGTACCT
Sequence 5317
CCGCGGTGGCGGCCGAGGTACTTCTTGTGGTGCAGCAGCAGAACCAAGCCGCCCCCTAGC
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CCGTCCACTGGAGGGAAGCCCACACCCAGGAAGCATCNACCCAGCTTGAGNTANTGTTTG
GTCCCAATAGCCAGGGCCTGTGGAAGCCCCGAACGTNANATTTGAAGGCACAGAAAGTTA
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TGCTTAAGGCNGGGATTGAAATAGGGGGAAAGCTTTTGNCAAGGNGCAANGGGGNCTTGA
TTTCTNCGGGCCCCCCCCCGG
Sequence 5318
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCAAGGCGACCA
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CACACTTGCTCTCAGTCTTAGCACCATAGCAGCCCAGGAAACCAAGAGCAAAGACCACAA
CGCCGGCTGCGATGAGGAAGTAGCCCACGTTGACAAACTGCATGGCACTGGACGACAGTG
GCCCGAAGATCTTCAGAAAGGATGCCCCATCGATTGACACCCAGATGCCCACTGCCAACA
GGGCTGCACCACACAGGAAAGGATGAGCCAAATTGAAGGAGGGATCATCATGGGTCTTTA
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Sequence 5319
NAGACAGCAGATTGGGCCTGACCCCCACCAAATCANCAAGCTCTTCCATGGTATTCTATN
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TTGTNTTTAGACCTTTAAATACCTGAGTGGCCCAGCGTCCTTGGTAGGCTCTGAAATGGG
CATGAANGGCCTCCTAAGNGGCCTGAATCAA
Sequence 5320
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GCCAACNAAGCCCAAGAAGGCGGCTGGCCGGCNGCAACTCNGAATAAAGAAGCGCTTAAN
AAAACACCCNAANAAAGCNAAAAAGC
Sequence 5321
CCGGGCACGGTACATGGTTCGAAGCCACTATGTAACAAGAAACACTCTCTGAAGAAGAGG
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TCTTCAGNGGCGATTTATATGCCCCAAAATGTCTACTGTGTGCACCTGGATCACAAGGCG
ACGGATGCCTTTAAAGGTGCAGTNGAAACAGTTACTNAGCTGCTTCCCAAATGCTTNTCT
GGCTTCCAAG
Sequence 5322
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GACCCTGGGAAGCACGCACTGAACAGTCANGAGCTGTGGATGGTGCTGGACAGAAAAANG
ACAGGGCCTGCTCAGGGTNATTCTGGGGGTCCACTTGTCTGTAATGGTGTGCTTCAAGGT
ATCACATCATGGGGCCCTGAGCCATGTGCCCTGCCTTGAAAAAGCCTGCTGTGTACCTGC
CCGGTCGGNCGTTCTANAAACTAGTGGATCCCCGGGGCTTGC
Sequence 5323
CTCCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGAGATTAGAATTCCTGGAGGC
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NNTNNCAAGGACTGAGAATGCACATATGGATNGAACAANTCTAGAAATTCAAGCTNCNTC
TATTGCTNAACAAGTNTNNAGTTCATATAAACCTAAATTNATANNAAAGGTCTNAACGGC
AAGAGTTNCTACCNAAAGATTNTGTTNAAACACCTGGCA
Sequence 5324
CCGCGGTGGCGGCCGAGGTACAGAGACAGAGGAAGGGGGGCTCCAAAGCCAAGAGAGGGA
ACCCCACCTGCCACAGATACCAGCTAGGTATATATACAGAGGCTGGAGGAGGCAGTGTCT
GATTTGCACAGGCTCAGGGGATTGGTTTGACTAGGCATGTCATTCACGTAGCCCGCAGGA

Table 1

AAAGCTGGCTCTCCCACCCTAGCCTTTTAATATGCAAATGCAGGGCACCATGATCTTCTA
CACAGGTGGGGATACTTCGGGGTGTCCATGTATCCAGGAATGTGGGGAAAGGGCAAGAAG
TCCACAGGAATCGCCATGTTTGGGTGGACCCACTTTCTAATGGCTGGCATTTGGATATCG
GGTAACTGGCCTGGCTTTAAGAGCTGGAGCTTTACAAGAAACTTTTCCAAGACGTGCTTT
AAAAAACAAAAACTT

Sequence 5325

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTCCATTTATC
CGCCATGATAAGTGCCAGCCGAGCTGCAGCAGCCCGTCTCGTGGGCGCCGCAGCCTCCCG
GGGCCCTA

Sequence 5326

GCTATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCAAGGT
GGTGCATTACCCGGAAGTGGATCAAGGACACCATCGTGGCCAACCCCTGAGCACCCCTAT
CAACTCCCTATTGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAAACTG
GAAGAGTCTACAATGTTACCCAGCATGCTGTTTGGCATTTGTTGTAAACAAACAAGTTAA
GGGCAAGATTCTTGCCAAGAGAATTAATGTGCGTATTGAGCACATTAAGCACTCTAAGAG
CCGAGATAGCTTCCTGAAACGTGTGAAGGAAAATGATCAGAAAANAAAAAAAAANAANAA
AAAAAAAATGTACCTGCCCGGGCGGCCGCTCTAGAACTAGNTGGGATCCCCCGGGC

Sequence 5327

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCTCCTCAG
CGGATGTGGCAGCCCCGAGCCATGGCTCTCGCCGTCCGAGTCGTTTATTGTGGCGCTTGA
GGCTACAAGTCCAAGTATCTTCAGCTCAAGAAGAAGTTAGAAGATGAGTTCCCCGGCCGC
TCTAGAACTAAGTGGATCCCCCGGGCCTGCANGA

Sequence 5328

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTACCA
GAACCTCGACATGGTGGTGTCATCTGCCATTGGATGCCAGCTGGGCAGAGACCCCCACGG
GCTCCGAGTCGTGGTGGTCACCGCCGAGAAAATTGTTCACATCCACATTCTGGCTGTGTA
GCCACTCCACAGATGGGTGGTCTCTTGGGGATCAGAATGCCCCTCCACTCATGAGACTCT
TCATTTTGTCCACTTTGACAGGAAAAGTGGGAATGTATGCAGAGCTCTCAAAAGAAACAA
AAAAGGCCAAAACGGTGCCTTCAGCCACATCCTCTGAATTGGCCCTGACTTGGACTAAAT
GCACTAATGCAAAATCCCTTGACAAAAGCGCATAGGTTATTTCA

Sequence 5329

TGGAGCTCCCCGCGGTGGCGGCCCGAGGTACGCGGGCCTCCCAGATGGCTGCTGCTGCCC
CTTCAGTCCAGGCCTGTGATGGTTAATTTTATAGGCTTAACTGGGCTAAGGGTATCCAGA
TAGCTGGTATTATTTCTGGGCGTGTCTGTGAGAGTGTTTCTGGAAAAGAATAGCATTTTA
ATCAATGGACTGAGTAAAGAAGGTTGCTCTTAGGCCAGGCGTGGTGGCTCACATNTGTGA
TCCCAGCACTTTGGGAGGTTGAGGCAGGTGGATCACTTGANGTCAGGAGTTGGAGACTAG
CCTGGCCANTATGGCNAAACCCCATCTCTACTAAAAATACAGAAAATTAGCAGGGCATGG
TGGTGCATGCCTTGTAATCCCAGCTACTTNGGGGGCTTATGCAGGGAGAAATCTCTTTAA
CCTGGGAA

Sequence 5330

CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTGNNAATTGCTT
TATTCAGAGGATCCCCCAAGGATGCAACGGATCGCTGCTGTGTCACTCATGACTGTTGCT
ACAAACGTNTGGAGAAACGTGGATGTGGCACCAAATTTCTGAGCTACAAGTTTANCAACT
TCGGGGAGCANANTNACCTTGTGCAAAACAAGGACTTCTGCAAAAGTCAACTGTGTGAGT
GTTGATAAGGCTGCNGCCACCTGTTTTGCTAGAAACAANACGACCTACAATAAAAAGTAC
CTN

Sequence 5331

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGNGGCGGCCGCCCGGNCAGGACCTGCCCT
GCCCTCTGCTATGAAGGTCTCTGCCTTGNGGATCATGGGACTCCCCTTGGAGGATCTGTG
CAAAGGGGGGCTGGGACACAAAGGATCAATGTCCTATTTGGGAGGGCNNGAAGCAAAGGA
ACTTGGACAGGGATTGGNGNNCTTTNNGGAACTTGANGTTTTATTCTTGGA

Sequence 5332

ATAGGGCGAATTGGAGCTCCCCGNGGTGGCGGCCGANGTACATGGTGGCCAATCAAACAG
GCCACACCCTTGTTGCAAGTCCCGCGAGAGGTTCAGANAACTCTCCCGTTTCACTNCTGC
CTCAGGCCTCAACCACC

Sequence 5333

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAGTAGTGCA

Table 1

CTCTTGGTTCACTGTAGCCTCGACCTCCGGGGCTCAAGTGATCCTCCTGCCTTAGCCCCA
CAAGTAGTGGGACTATAGGCACACAGCACCATGCCCATCTAAGTTTTTGTATTTTATGTA
AGAGACAAGGTTTTCACCATGTTGCCCAGGCTGATCTTGAGCTCCTGAGCTCAAGTGATC
TGCCCACCTTGGACTCCCAAAATGCTGGGATTATAGGCGTAAACCACCATGCCTGGCCTT
AAATCAACTTTAGAGTCAACATCTCTTATCACTGGAGCTTCTGGAGAAACTCCATCACCG
TGGTGCTCTCTTTCCTGATGTGTTGTGCCCAAATAAGCTTGTTTCTCATTCAAGATGACT
TANTNGCTATGATATATATA

Sequence 5334

CCGCGGTGGCGGCCGAGGTACTTNGNTTTTTTTTTTTTTTTTTTTTNGGACTTCTAAAA
AANAATGGCTATACTAATTCATGTTTCCATGAACATGTGTGCAANANTTCCCTTTTNTCT
ACATNTTTGCCAACATTTGNTATTTATTATGATTATTTNTTTTNTTGAGAAGGANTCTTT
GCTCTTGNTNGCCCAGTACTATNAGTGCNAATTGGACNCAAATNTTNGGGNTTCACTACA
ACCTNTGNNCTNCCGGGTTNAAGCAATTTTTCTGNCTACANCCTCCCGNGGGNGCTGGGA
TTACAGGNTGTTCACCNCTTGNACCCAGGTAAATTTNGTGNTTTTTAGTATNANATGGGG
TTTTTAAC

Sequence 5335

CCGGGCAGGTACTCCAGGGTGCCCCCCAACTCCTGCAGCCGCTCCTCTGTGCCAGGCCCT
GGAAGGAACTTTCGCTCCACCTCAATCAAGCCCTGGGCCATGCTACCTGCAATTGGCTGA
GCAAACGTTTGCTGAGTTCCCAAGGATGCAAAGCCTGGTGCTCAAGCTCCTGGGGCGTCA
ACTCAGTACTTGCGGTCAGTGGCGTTGCTGATCTGGGGGAAATACGCGTNGACCACCAAG
AAGAAGGCCGAGGCCAGGAAGGCCAGCACCCCGATGGCACTGCCATAGCGGCAGGCATCC
TCGTTGCGGTTGAACACGCAGTACCT

Sequence 5336

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAATCCNGGTGCAACTACATTCACTCTA
ATTNTCTTTCTTGCTACCTCTNTAGCAAGAGCACGTGAAAATCCAACTAATCCTNCTTTA
CTGGCACTGNAAACGGACTGGCCAGAGTTGCCTTTTAAGCCAACAATGCTTCCTACATTA
ACAATAGACCCTCCCTGTTGTTGAATCATAGTCCTCATGGCAGCTTTACAGGTCAGCATG
GAACCCAAGAGGTTAGTATGAAGCTGAGATACCATATCTTCAGTTTTTGTTCTTACTAAA
AGACCATCCCTGTTAATACCAGCTGCATTTACCANGAAATTTACTCGACCTAAATGTTTC
TCCATCTCTTCAAATGTATNNGGAACATCATGTTCTTTA

Sequence 5337

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTT
TTTTTTTTGCAAATGGGCCCTTTATTTCTGAACTGCCACCACTGCACGGATAAGGCCACT
TGGGTTGCAGGCACACTGTGGAGTGTCAGGGGACAGANAGGAGAGGGGCTGCACACCAAN
ACTGCCCTGTCCTCACGGAGAGGAAAAGCGGCCCNAGGTACGGGGGGCCTGTGGATGCTG
CGCCTCTCCGAACGCAACATTGAAGGTGCTCCTTGCCGCCGCCCTCATCGCGGGGTCCGT
NTTCTTCCTGCTGCTGCCGGGACCTTNT

Sequence 5338

CGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTCTTCAATC
ACAAAATTTTTCACCAATCTATTTATGTCTAGTATCAGAAAGTTAAGCAAGGAGATTGCA
AACCAACACAACACCTTTAGTCTGGATTTTCCCGGAGCCCCATTTGTGTTAGTGTCCTCG
GGCTACTGTAACAAGTTCTCAATAATGTGGTAGCTTCAAACAACAGGAATGGAATCTCTC
ATAGTTCAGAAGTCCAGATCAGTTTCACTGGGCTAAGATCTTGGAGTCATCAGTTCTGGC
TCCTTCTGAAGCTCTAGGGAGCAGTCTGATTTAGCTCTTCCAGCTTCTGGTGGCTTCTCT
CTCCCGGGATGTGGACACATCACTCAGTTCTTGGCAACCTGGTTGCATTCTTAATTTGGT
CCTGTAATTCTTCATTGCTGTATTAACTTTCTG

Sequence 5339

TNACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACACTTTTC
ACCCCACTTCCTCTGCCATCTTGGTCCTGCTGTCCTGAGGAGCTACCTGTGCACCCTGCC
TCCGGCTCTCCTGAGCAGAGAGATCCTGATGGCTGACTCAGAAGCACTCCCCTCCCTTGC
TGGGGACCCAGTGGCTGTGGAAGCCTTGCTCCGGGCCCGTGTTTNGGGGTTTG

Sequence 5340

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTGCTGA
GGCAACTGCAACGCGCAGCATGGCTGTTTCAAATATTAGATATGGAGCAGCAGTTACAAA
GGAAGTAGGAATGGACCTAAAAAACATGGGTGCTAAAAATGTGTGCTTGATGACAGACAA
GAACCTCTCCAAGCTCCCTCCTGTGCAAGTAGCTATGGATTCCCTAGTGAAGAATGGGCA
TCCCCTTTACGGTTTATGATAATGTGAGAGTGGAACCAACGGATTCAAGCTTCATGGAAG

Table 1

CTATTGAGTTTGCCCAAAAGGGAGCTTTTGATGCCTATGTTGCTGTCGGTGGTGGCTCTA
CCATGGACACCTGTAAGGCTGCTAATCTGTATGCATCCAGCCCTCATTCTGATTTCCTAG
ATTATGNCAGNNGCCCCCATTGGCAAGGGAAAGCCT

Sequence 5341

GGTACGCGGGGGGAAGTCCTTGCAGGGTGGCCTGGGTGACTGCTCACCAGCCCGGCCCTC
CCCAGGGTTCTGGGCCAGAGCCTCCCTGGCCGTTGGAGCGGGAGCTGTGGGTGGAACACT
TCTGAATTGGGAGATTGCCTCGGACCTCCAGACGCCGAACATCTCAGCACATCCCGCTCT
GGGCTTTAAACGTGACCCCTCGCCTCGACTCGCCCTGCCCTGTGAAAATGTTGGTGCTTC
TTGCTTTCATCATCGCCTTCCACATCACCTCTGCAGCCTTGCTGTTCATTGCCACCGTCG
ACAATGCCTGGTGGGTAGGAGATGAGTTTTTTGCAGATGTNTGGAGAATATGTACCTCGG
CCGCTCTAGAACTAGTTGGATCCCCCGGGCT

Sequence 5342

CTCCAGGAACGCCGACCACTCCACTTTAGGTATCATACGCGCCACGAAGTTGGGGTTGAA
TTCCACAGGGCAGATACGGACCTCGGTGGCCTGGAGGCGCAGGGGGAAGCCACGGGACCC
CACCCCCCGCACATGCGAGCTCAGCAGATTGTGGGTAAGCAGTTTCATGTCGCCGCACAA
ACTCCCCCGCGTACCTCGNGCCGGGGCAGAAGTTGAGACCACCCAGCAGAGGAGCTAGGC
CAGTCCATCTGCATTTGTCACCCAAGAACTCTTACCATGAAGACCCTCCTACTGTTGGCA
GTGATCATGATCTTTGGCCTACTGCNGGCCCATGGGAATTTGGTGAATTTCCACAGAATG
ATCAANTTGACGACAGGAAAGGA

Sequence 5343

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCAGTTCCTTGG
AGAGCTTGGAGCCGCGCGCCGGAGGGAATAGGAAAGCTTGGTTACAACCCGGGACACCCG
GAGCTTCAGGATGGTTCGTACCTTACTAGTTACCCAGCAAGTCACTAACATACAGAAACA
TTCATCATGAGAAGCAAGAAACACTACCCATCCCTTCTGCATTTTAGCAACTTGTTACTC
CTAAGCAACAGTGCTCACATCACTGAGGTCTGTGAACAAAGTTCACATTTTACATCCTTA
AAGAGCATTTGTTGTTATCTGAACCTCTGCTCTGCTCTTCCCAAAGCATAAACTAGTGTT
TTTATGAATAATAAAATCTTCGTACCTGCCCG

Sequence 5344

GNCGNCCGGGCAGGTACGCGGGGGAGAACCCCAATAATAACCCGATCCACCCNAACCTGC
GGTCCACCGTCTACTGCAACGCTATCNCCCANNGCGGNGAGGAGGAGTGGGACTTCANCT
GGGAGCAGTTCCGAAATGCCACACTGGTCAATGAGGCTGACAAGCTCCGGGCAAGNCCTT
GCCTTGANGCAAAAGAGTTGTNGGATCCTGAACAGGTACCTNGNCCCGCTCTAGAACTAN
T

Sequence 5345

GGGGGGGTTCCGGTTGTCTGGAGCCCAGCGGCGGNTNTGAGAGTCCGTNGGGAGCAGCTT
CCAGGATCCTGAGATCCGTATCAGCCGGGGTCGGACCCGGCTCCTCAAGAGTTACTGATC
TATGAAATGGCANAGAATGGAAAAAATTGTGGACCCNAGACGTNNTACCAANTGAACANN
GAACATCATAAGTGGGAAATTTCACAGACCCCTTNTTTAGTTGAATGAAAAGAAGAGGAA
GGGAGCNNNAAAGAAAGGCAAG

Sequence 5346

TNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGGTTAA
TATTATTTTGATGAATTCTGTATTCATTCAACTGCTAAATCACAGGATACAAGACCTGGG
TTGAACTTTTTCTTAAATAGTTTACATGGGCAGTCCCTGGTTTGCTGGGCAGTTTCCTGT
CTCATCAAATCCCTGGCAAGCTGGGAGGGAGGGAGGAGATGCTGAGCAGCCTCTATGGTC
CTTCTTGAACCAAGCTGCTCCCTGCTGGATATGACAATGGCTCAGAAGCAGACTAGCAAT
TCTCAAAGGACAGGGAGAAAAATCACCA

Sequence 5347

CCGCGGTGGCGGCCGCCCGGGCACGGTACGCGGGGCCTTTCCGGGCTGTCTGACACGATG
CAAGTGTCAGCTTGTGTTGGCCGGTTGCCTTTCTTTCGCAAGAGGGGAAAATATCCTCAC
AGACTTTCTGTGTTCTCAGAGACGATCTTCTTCCCTAGAAAGAAGTCGCTTACGGTTGGC
GTTTCCCTCAGGCAGCGCCCGTGGGCAAGCCCACAGGCCCTTGTAAGGCGCGCGCCGCGG
TCCCGCCTCTTTCCTTT

Sequence 5348

CTACTTAGGGCGAATTGGAGCTCACCGCGGTGGCGGNCGNCCGGGCAGGTACTGCTCGCC
TNCGTTCTTTTGATGTAAGCGCCCTGNGAGCTTTATTATGAATGTTCCTGTTCCTCTTNC
CTTTGTGCCTTCCGNTNCTTTCCCTTTTTGGAAGGTGCTCTGTCATCTACATCTTCTTCC
ANTGTTTNTCTTTGNTCTTCANGTTTTGCAAANATACTTTTCACTCAANACCCCTTGGAT

Table 1

ATTCATGACTGCANGAAAACTTTTTGGCTTNGGCTTTGTCTAGAAACTTNTGATATTNGG
CAATCTTCTCATCCAGTGCT
Sequence 5349
ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTNGTTNTTTTTTTT
TTTTTTTTTTGNTGCTCCAGNCAATGAAAGGGACACTTTATTGAGGCTCCAGGGCCACGG
GGCCTG
Sequence 5350
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGATCACCTGA
GGTTGGGAGTTTGAGACCAGCCTGACCAACGTGGAGAAACCATGTCTCTGCTAAAAATAC
AAAATTACCTGGGTGTGGTGGCTCATGCCTGTGGTCCCAGCTACTTGGGAGGCTGAGGCA
GGAGAATCACTTGAACCCGGGAGGCGGAGGTTGCGGTGAGCTGAGATCGTGCCATTGCAC
TCCAGCCTGGGCAACAAGAACGAAACTCCATCACATAAAAAAAAAAAAAAAAAAANGTNC
NCGGGGGAGGCGAACAATGGCGGAGCTGGGCGAAGCCGATGAAGCGGAGTTGCAGCGCCT
GGTGGCCGCCGAGCAGCANAAGGCCGCAGTTTACTGCACAGGTGCATCACTTCATGGAGT
TATTGT
Sequence 5351
GNCCGGNCAGGTACNCGCTGTGGCNNCTGCANCGCGCANCATGGCTGTTTCAAATATTAN
ATATGGAGCAGCACATTACAAANGAAGTATNGAATGNACCTAAANNANATGGCNTNNTAA
ANANGGGNGCTTNNGNNNTATANNTAGGCTGGGGAGCACTTAATTTTTTCCANTTTTAAA
AANGGGAANTGCTNCTGGNGGCTTTAAACTCNCCCTNTNCCCTTTTTGGNCNAAAGGATT
NGGGAACAAAAAGCNCATTCTTGGGGCAGGTCAAGGGGGGCCAANGGGACTGGTTTGNGA
GGGAAGAAGTTTAGCCCAAAGTATAGGGCTCTTGCCCAGATGCCATCACATCCCTGATNC
TGCNATATGCTTTGAAGCACCTTTTCNTGAGAAGGGGAAAAGGGGGAATCTTTTGGACTA
AGGGTTCCTTGGCTCCAGACCTGGAATNCACAAAAGCCAAACC
Sequence 5352
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGGCTT
CTTTAACATGCGATGAACGTTCTTTTCCCTCCTGGGTTGTTCATCCACGACAGTCTCTCC
CTGTGCTCCTTCATCACCTTTCCCTCTCTCTTTGATGGCTACAGAGTGGTAGGGCCTGGT
GCTTAGTCGATGAAGGAATGGNAACCCATNTTCAGTGCTGGTTGGAAGAATTTTCCNCCA
GAGCGGCTGGAGAACCTTGCGCTCAAATCTTCTNTGGTTGATGAAGAGGCGAGGAATCAA
GTGACTGATCTGGAAGAAATATCTCGCAGCACTGCAGCTAACATCACAGAACTTAAGTTG
TGTTTTGTGTTGTGTGCCCACACGTAGACAAATGGTGTACCTCGGCCCGCTCTAGAACTA
GTGGGATCCCCCGGGCTGCAG
Sequence 5353
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTNCTTNTTTTTTTTTTTC
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TCGATATGCAGNAATATCCTTTTNGTATTTTTCCTTCANCTTNGCAGCCTTNTTNTCATA
AGGCTGNTTGTCATCNTGCAGCAGAGGTAATTTNCACATATTATNCCANTTTNNTTCGTA
AACNTCNCCAAATNGGACAGGCCCAGGAGTGNTCTACCTTTGATTTTTGGGCCGATACTC
ACGAGCAGAATAAAGGAAGGAAGGCCNGAAGGAGGCCTTTTTGGGTGCATTTGGGATCCT
TGAACTTCTTTTTTNGGCTCCCCTTTGGG
Sequence 5354
ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTGA
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CAGAAGCTGGGTCTGAGGATTACCAGCCTCACGGAGTGACTTCCAGAAATATCCTGACCC
ACAAGGACGTAACAAGAAAAATTCTGGGAGACCCAAGTNGNTAGAAGTCCCAGACTGAGG
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ATGGGAGGGAAGCCAAGACCCAGTGGGCGCATCCGGTCCGTGCTGCATGCAGATGAGATG
TGAGCTGGAACAGACCTTCCTGGCCCACTTCCCTGATCACAAGGAATCCTGGGCTTCCTT
ATGGCTTTGCTTCCCACTGGGGATTCCTACTTTAGGTGTCTGCCCTCAGGG
Sequence 5355
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGTGCCATTTCTTA
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GTTAGTTAGTTAGTTATTATGTGCGCGGGGAGGTGGGGGGACGGAGTTTGGCTCTTGCTG
CCCAGGCTACAGTTGCAATGGCCCTAAGGGGGACTNAAAGGAGTTCAACCCTATTGNCAG
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CGCTTTTAAAGGCTGAAATCCCGGCGGCTCAGGCCTTGTCGTTTCCAGCACTTTGGGAGG

Table 1

794/863

CCCAGGAAGGTGGATCATTTGTGGTCAGGAAGTTCGAGACCAGCGTGGCCCAACGTGGGA
GAAACCCCGTTCTTCTACTAAAAA
Sequence 5356
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTAGGCCTCTCT
GGGAGTGGCCTTCTGCGTTTTTAAATTTTATTTATTTTAAATTTTTCTTTTTCTTTTTTT
TTTAAGACAGAGTCTTGCTCTGTCACCCAGGCTGGAGTGCAGTGGCGCGATCTTGACTCA
CTGCAACCTCCGCCTTCTAAGGTTNAAGGGAATTCTTCTGCTTCAAGCCTCCTGAGTAGC
TGGGATTATAGGCGCCTGCCATTACGCCAGGCTAATTTTTTGTATTTTTAGTAGAGACGG
GGTTTCACCATGTTGGCCAGGTGGTCTTGAACTCCTGGCCTTAAGTGATCTGCCTGCCTT
GGCCTCCCAAAGTGCTGGGATTACAGGCATGGAGCCACCACGCCCAGCCTTCTTTATTTT
TAAGATGGGGTCTTCGCTCTACTGTCCAGGCTTGCAGCTT
Sequence 5357
ATCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTT
TTTTTTTTTTTTTTTTTTTTTTTTGNTTTGCTAATTGCTTTATTCAAAAGTTGANACCAC
CCAGCAGAGGANCTAGGCCAGTCCATCTGCATTTGTCACCCAAGAACTNTTACCATGAAG
ACCCTCCTACTGNTGGCAGGGANCNTTNAATNTTTGGGCCCNANTTGCANGCCCATGGGG
AAATTTGGGTGAATTTCCACAAAAATGATCAAAGTTGACNACAGGAAAGGAAGCCCNCAC
TNAGTTATGGCTTNTACGGCTGCCACTGTGGCGTGGGTGGCAAANGATCCCCCAAGG
Sequence 5358
CCGCGGTGGCGGCCGCCCGGGCAGGTACAATATTTAAGACACAAATTCATTAGGTATGGG
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TATTAGAGTTTGCCTTGGATACTTGGCATTGATTAGACTGTNCTGAAATTTGGTTNTGCC
TAANTCAAAAAAAATTCTNGNTTATTGGTTCTTTCAACAANAAATAGNATGTAGCCACTT
TAAAAATAGTTACATTGTTTTCCAGATTAAGTAAATATTTCAGTTAGGAAGAATACATAT
TTTTATTTTTATTTTCAGTTTTTGAGATGGAGTCTCACTCTGTCACCCAGGCTGGAGTGC
CAGTGGGTGTAATCTN
Sequence 5359
CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTCCCGGGGAGTCGGCCTCGGGGC
TCTGCTCTCCTACCTCAGTCTGCCCTACCCTGGAATGGGGAAAATGCGGACATGCCACTC
AGTC
Sequence 5360
ATCGACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGGCGCGGTGGCTCATG
CCTGTAATCCTAACACTTTGGGAGGCCAAGGCGGGCAGATCACAAGGTCAGGAGATTGAG
ACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAAAAATTAGCCG
GGCGTGATGGCGGGCGCCTGTAGTCCCAGCTACTCGGGGAGGCTGAGGCAAGAAGAATGG
CGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATTGCGCCACTGCACTCCCGCCTG
GGCCACAGAGCGAGACTCCGTCTCANAAAAAAAAAAAAAAAAAAAAAAGTACCTCGGCCG
CCCGGGCAGGTACTTTTTTTTTTTTTTTTTTNAAGTAACTGGTCTGTAAGTGCATATNTN
TAGAAACCGTCCCCGCANATGAATGAGGGCCAGTGGCC
Sequence 5361
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGCGCT
TGCGCGGGTTGAGGGCGGTGGCTCAGGCTCCTGGAAAGGACCGTCCACCCCTCCGCGCTG
GCGGTGTGGACGCGGAACTCAGCGGANAAACGCGATTGAGAGCAGTGTGTGGATTACACT
ATCACTGGAAAAANNNCCAATTTGAGAAATAAAGGGAAAAAGAACTTGGGAAGAATGCAG
GACCTTTGGGTTCCTGTTAGTGGGAAACACTGTAAGGTCCCAGAAATGGAAAAGAAAATG
AANTAAATCAGCAGTTATGAGGCAGAGCCTAANGAGAACTATGGCAACATCAGGTGACTG
TCCCAGAAGTGAATCGCAGGGAGAAGAGCCTGCTGAGTTGCAGTGAGGCGGGTNTCCTGC
AGGAGGGAGTACCTCGGCCGCTCTAGAA
Sequence 5362
TCGCTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTGCCTCAGC
ATCTCGGAGAATGTAGTTCTGCTCATCTGGAAAACAGAACAGCACATACTCTGAAAAGTG
TGGACACGTGAAGTGTGGCAAGTGTGACCCACAAAATTCTCGCCCATATTCAGCGTATGG
ACCAGTTTGCTGACTGCTGGGCCAGGGACCACCCACATCATGACAGAAAATGCAGGGATC
TGTTCACCAACGGCCAGAAATACAAAATCAATCCCTGAGTCAACCAGCAGATAGAAAGGC
TGCTTTTTAGGTGAAAGGAGAAAAAGAATGTCTATAATTTGGAAAAACAAAAAATGATGA
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TTTCATCAATATAACCTTTCCCCCATTCTTTGTGGTTGGGT

Table 1

Sequence 5363
GNGGCGGCCGAGGTACTTTGTTTTTTTTTTTTTTTTTTTGCTTCGGGTGAATCACTTTAA
TGCTGTTAACGGCAAGTCTGTAAAAGGTTCAGGACAAAGTTCTTTTTTCTTTCTTTTTTA
ATTATAAAACTAACAGCTGTTAGAATCTTTTTTTTCTTTTTTTCCTTTTTTCTTTTTCCCA
NCTNCAAAAAATACTTTTGGGGGAGATGCATTATTAATTTTAAAAATATATTAATNTTGC
ACCAAACCAACCAAAAAGGGTTAAATTAAACTAAAAGGAAATAATTNCAAAGAGAAAAAC
CCCATCCCGTCAAAAAAAGATTCAGCATTCTNTCCATCCCCACCCCCCCCTTCACTGAAA
GGGTTTTGAAGTGGGAAAAGTGGACCCTCACTCTCTCGGGNGGNCCCCTTGACCCCACGA
NCCCCTTTTTCAA
Sequence 5364
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTT
TTTTTTTTTTTTTTTTTTGNATTTTTTAATAGAGATAGGGTTTCACCAGGTTGGCCAGGC
TGGTGTCACAACTNTTGACCTCAAGTGATCTACCACCCTTGGCCTCCCAAAGNGCTGGGA
TTATAGGCGTGAGCCACTGTGCCCCGGCCAANATTAAANAATTTTTTATTAGCTACTACA
GCTTAAAAGTAGCTGCTATGGGAGTGTGGCCTTTTTGATTAAATACTAGCTGATCAACCC
TAGAATATAAATTCTTGTTTTATAACATTTAGATTTAAANAACAATAAGAATGTAAGCTC
CATGAAGGCAAGAATGCCTTTTTAT
Sequence 5365
CCAGTGTTACTTTAATTGGACTGCCTTCGTAATTCATTGCCTCTGCTTCAACAATGTGCA
ACTCATCCTTTGCACCAGCCCCTAAACTGACCGTTCTTAAAGATAACTGGTGCTCATTTT
CATCATTATCCACCTTAAAGTGATAATCTTTGTCGGCCTTTANTTCACAACCCGAAAAAG
ATAAGTTCTGGGGGCCNTAAAGGGGGCTCATTGTTCCATTGTCCATCGAATCTTCCATCN
GGGTGGGGCGGNCCCCCCNCTTAAGNTTANGAAAAAAAAAGGGCGGNCCGGGANNNNAAA
AAAACGNTGNTCCAAAAAAANAACCCGCGCANGACGGAATCACACCAGGGGAAAGGACGC
AGGCTCCCCGCGTACCTGCCCGGGCG
Sequence 5366
GAGGGACGCGGGGGAATCCAGAAGGGAAANATTGCACTGGATAATTTAAAAACACGCTGG
GGAGAAAACTGGGGAAACAAAGGATTTATCCTCATGGCTCGAAATNTTTNACAACGCCTG
TGGCATTGCCAACCTGGCCAGCTTCCCCAAGATGNGACTCCAGCCAGCCAAATCCATNCN
NGCTCTACCATNACTTTCCACGATGGCGCAGTGTCAACCGATGCACTNNCGGAAGGGAGT
NGGTGTGCTATTTTTGAAGCAGATGTGGTGATACTGAGATTGACTGTNCAGATNCCCCAT
TTGTTGTGNGCAAACAAATGATCCNTCCCACTTTGCNTNCTCTNCACCCATGACCTTTTT
CANTGTGGCCATCAGGACTTTCCCTGACAAGCGAGCGTACCTACCNGGAACTGGCCGTTC
NACGAACTAGNGGATCCC
Sequence 5367
CGGGCAAGGGACGCGGGGAAGGCCAGCTTGAANANCANCCGGTGGGAAACNGAGGCCCGC
AACGCCCTACAGNGGGAGCTTTNTAAACGGGANCCCNCCGCACTTTTGAGGCANANCGGG
CACAGACCCNGGCAGAGGGACAGCGCCAGGCCCAGGANGAGGANGCCCCCGCNGAACAAN
AAAGGGCAAANCCCGGAGGCCGGAGAAACGCCACCNACCGNCGCCAGCNGGGAAGAAAGG
CCGANNGACNNCAAAAACCNGGGNNGAAGCCCNANGGACAGCCAGCAACCNCCAAGGCAA
AACCAGCCAAAAAAGACCACCACCCGCCCGGAAAANGGGGANAGGCAAAAGAGGACGNCN
GGAGACCAACGGACACCAAAANCNCCGANGCACNAAGCCAGCAAAAAGCAGGGNACCCCG
GGCCGCCCAAAAAACCAGGGGGAACCCC
Sequence 5368
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACTGTGTCTCTATGTGAATATG
GACAGTTAGCATTTACCAACATGTATCTGTCTACTTTCTCTTGTTTAAAAAAAAAAAAAA
AAAAAAAAAAAAACTGTACGCGGGGGAGGGGCTCTGCCTTCTGNAGTGNCGCTGNTTGGG
CCCCTGGCGGATTGNAAGCTGCTGGTTTTTGCGCTTGGAAAAANCGCCAAGAAGGGTTNG
CTTTTTTTTGTCANGNATTCCCCCCCACGGATAATNTNCNGCCAAAAAGAGTCNTCACCC
CCANTGGGGTTGAAAACCNNTTCANGCCNTTCCNNAANAANAAAAAAATNTGGGGGATTN
TTAACCAAATTTNGGGGNAAGGGAANAAAAANCTTTGNGGGGTTTTNNGAANAAANGGNN
NAAANCCCAAAANGGGTTTTTTNCCAATANTTTTNAGGGGGNCCCAAAAAAA
Sequence 5369
NGGAANTCTTGAAGNGGGNNGNNGGCCATATAGAANCAANGGACACTTNANGANCNCAGG
GAACGNGGGGAAGAAAGGCCCANNGGAAGGGNGGGNNGTNTTTNTAAGACTTNCCCNACN
AGGNGNGGGGGGTTTTTTTTTTNGAAGGAANGGGGAAGGNNCNNCACNNCNNGNCAACCC
CGGGGGGCCAGGAAAAGGGGGCCAAAANCNGCAANAGGAAANCCNNNGGGGGNNNNNACC

Table 1

GGGGNAACCCCCNCCNGGCCCCNGNCCCGGGGGGAAAAACAAAAGGGGGAAAANNNCCAC
CCNNGGCCCCANNAAGCCCCNCCCCNGGGNAGGNAANGCCCGGGGGGNGNAAANNAAACC
AAGGGGCCNNNCNCCCAACCCCAACCAACCNCCNGGGGGCCNAAAAAGGGNNNAAAGGAA
AAAGGCCCNNCCNAAAGGGNNAAGGAAAGGAACCNAAGGGGGNGNNNNGGNGCAAACCCC
AAAAGGNNNNGGGGGGNNCCAAGGGGGCCCGGGGGGGNCCNNCCNGGAAAAACCNNCCCC
CGGGGAACCCCCNNNAANGGGGGGGGGAAAGCCCCCAACCCCCNNGGGGNNNNNCNNCNN
CCCCCNNCNCCCAAAAAAAAGGNNGGCCCNGGGGGGGGGAAAANANAACCANGGGGGCCAN
GGGGAAAGGCCCCCAACCNGGGGCGGGCCCCNGGGGGNNNNAAAAAANNNNNCCCCCAAC
AAAANNNNNNNCCCNNAAAAAGNAAANNNAAANGGGGNNNNGGGGGCCCCCAAACCAAAA
AAAA
Sequence 5370
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TTTTTTTGGTAATCATTGTTATCGTTTATTAAACAACAGGGCCACATTCAAACGCTTTCC
AATTCTCTCTAAATAACAGCCTAACGCTGACGTTTTTGTTGGCCTGTATCTCATAATTAT
TTTTATTTAGAGGAATTTGGGNATTGGCCGGGGTTT
Sequence 5371
CTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCANGGACGCGGGGGCCTC
GACGGCATCCCCTTCACAGTGGATGCTACGAGCCAGATCCACTGCATTGAGGACTTTCAC
AGGAAGTTTGCCCCAAGATGCTCAGTGTGCGGTGGGGCCATAATGCCTGAGCCAGGTCAG
GAGGAGACTGTGAGAATTGGTGCTNTGGATCGAAATTTTTCACATTGGCTTGTTACAAAG
TGCCGAAGGAAGTGTGGGGCTGCTTGCTCTCCTCTTGAGGGCGAAGTGTCAGGGCTGCTA
CCCGCTGGATGGGCACATCTTGTGCAAGGCCTGCAGCGCCTGGCGCATCCAGGAGCTCTC
AGCCACCGTCACCACTGACTGCTGAGTCTTCCTAAGAAGTACCT
Sequence 5372
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTATTTAATATATTTCTCCAT
GAACTTTTTGTGAAATTCAGATCGCAGTGTGTCATTTACAAATCTTTTGTCTTTCTTCTG
GTCATCTACACCTTTTGCACAGTTCTTGAAGACAACGTCATCATCCCACCTTCTTTTAAC
TTTGAAGTTGGCCTGAGGCTGGGATGGGGAAAAGGAGAAGGTGATTTGAGCCAACTTTCA
AAGCAGTATTCAAGCAGAGACCTACCCTCTCATACAAAGATAAAATACAGACAGACTACT
CAGGATGCCCCTGAAGAGGTTCGTAACCGTGACTTCAGGAGAGAGTTGGAAGAAAGAGAG
AGAGCTGCTGCAAGAGAGAAAAATAGGGGATCGTCCACCCGAGAACATCAACCTCCTCTT
TAGTGTCAAAAAAGCCACGGTTAGACCAGATTCCTGCGCCAACCTTGATGCAGATGACCC
TCTAACAGATGAGGAAGATGAAAGATTTTGAAGAAAGAAAGTGGATGATGATGATACTGC
AGCTCTTCTTGCAGAACTGGAAAAAATTTANNANNNNCAGGAAAATNANNNTGGGTACCT
GNCCG
Sequence 5373
CAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACATTCCCCTCTGCGTTGAAT
GATAAGCGTGTGCGTGTTCCACCACTGTGCCCTGTTCAAAGTTAGCTGGGTGGCTGTGCC
CTGCTCAAAGTCACTTGGGTGAGGGGCGCCCGTGGGAGCCAAAAATCCCATCTTACACCC
ACCCCCTGCCACTGTNGGAGTTGGGCTGTGACATGCTGGAGAAAGGTGTCTTTGTCTAAT
TATTCTGCCTAAGGGCATGCCTTTTGTTAATTAGTAAAAGGAAGCCTTATTTGTGCTCTG
CAAAATGGGGGTGCTGGTTAGGAAGGTAATTTCGTNGATTTTGAACCCCC
Sequence 5374
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AAAAGTTTAGAGGGCAGATGCAATTGTGGCAAGTGACCTGCCAATAAAGCAGGTGCAGCT
ATAGAAGCTGGCATAGGTATATCCTTAAATGGTGCTTTCTCCCTGGGCTTGTCTTTTTGT
TGTTTTTTTCCCCCTATATTCAGAGCTCCTTGAGAAGTGATAAACACCTCCAGCTTTCTA
ACATCCTNCCCACACCATCTCACCATATCCATCTCCCAGCATCCATCTGCATTCAGCTAA
GGGCGGGAAACTGACCCAGTGCCTGTGTTGCAGACCATTTCTGAGGTCTCCACCATCCAA
GGAGGCACAAGCCGTCATTACTGTCCTCCATGCCTTCAGCAGCC
Sequence 5375
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGAGACTGTCC
CAAGGGTGCTGAAGAATCCAGTGGCAGGGGTTCTGGCTGCTTTCCATCTGAGTGTGGGAT
GGGAGGGGTGTTCATGATCATTTGGATATAGCAATCTACTTCTTGAGA
Sequence 5376
GAGTGGCAAAGCAGGCAAACACGTCGTCGGTGCAGGAGAAGTGGGTGAGGTGCGGGAGGA

Table 1

TCACGGACTGACCCCGGCACTGGCCCCACATGTACCTCGGCCGAGGTACGCGGGTCACAC
ATGACGGGTTTGGCTTCATGCTGGCGTTTGGGGACATGGCCTGGGTGCCCTTCACCTACA
GCCTGCAGGCCCAGTTCCTGCTGCACCACCCGCAGCCCCTGGGGTTGCCCATGGCCTCTG
TCATCTGCCTCATCAATGCTATTGGTTACTACATCTTCCGTGGGGCGAATTCCCAGAAAA
ACACTTTCCGAAAGAATCCTTCTGACCCCAGAGTGGCTGTGCTTGAGACCATCTTCTACA
GCCACAGGGCGGAAACTGCTTGGTGTCTGGGTGGTTGGGGTATGGTCCGCCATCCCAACT
ATCTTGGAGACC

Sequence 5377

ACACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGGCCGCC
TTCGCCGCTGGCTCCGTCTGTTGGGGGGCGAACACGCCGCGGTCCTCGTCGTGATGGCTC
TGAGAGATTCCTCTGCGAATCTGTTTTTAGCTATCAAGTGGCATCCACGCTTAAACAGGT
GAAACATGATCAGCAAGTTTGCTTCNGATNGAAAAAACTNAGCTGGTTTNGGGTAGNAAG
AAGCNTGGAGGCTTGACNAGTGGNGGTTTAAGCCCATNTAAGCAGCTGCTTGGGATTTCA
CCCCNTNNTTCAGGTTNGATACTGCCTGGATGGTTCACCTNTGGTGCGCAGCAAGTGCAA
AGCCAGTTGGGGGA

Sequence 5378

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT
TTTTTTTTATGGCAAAAATATTTATTATTGAACAACTGAGTGTTTCATTCACTTCACATT
TTACACATACTTAACACAAGCAGAAGGGGAAGTTTCAGTGTCAGAAGCAGGGGTCGTTCT
CCTTAACTGAAAGACTATCANGAGAGGAGCCTTTNGTGATTAGGCAATCCAAATTTTGAN
ATTTTTTAAAACACCNTTAAAAATAAAGGNTGCCTATAAAATATGGAAACACNTAATATT
TTNTGAAAATNTTTTTGGAAGAATGTCTTTTTATCTTCATTGNTACTATCTNAGACATTT
TGAGGGTTATTTAACACANCAATGCCANCTGCTTAACATTNAAATTTAGACNCACTGATT
ATNTGNTCTACTCTCCTGAAATAG

Sequence 5379

CCGCGGTGGCGGCCGCCCGGGCAGGTACNCGGGCATCTTCAATACCAGCAAGAAGCTATT
CAGAAGAATGTTGAACAGTCATCGGATCTACAGGACCAGTTGAATCATCTGTTGAAATAG
AATGACNTGNAAGAGTGCTGTAGGACTNCTTTTGCCTAATGCTGAGGAGTNAATACNTTA
CACAGCTTGTNCTNTTGGGGTTTTGGGTTTTTCTATNTTCTTCTCCAAAAGTNTAAGTTA
TNAAAAAGTTNTGTGTTANGGGCCGG

Sequence 5380

ACACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGG
GGACCAAGATTAAACGGGCATCTCAGAAGAAGCACGTGAACCCGGTGCAGGCCCTCAGCG
AGTTCAAAGCTATGGACAGCATCTAAGTCTGCCCAGGC

Sequence 5381

NGGCNAATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACCTGATTCTTTGAAC
ATATTATTGAACTCCAAAATGAATTCGACCTCCATTCAGGCTTCCTGAAATCTCTGAAGT
TGCTGAAATTTGTATATTATTTTCCTTTTCCAATGCAAGATCTGCTGGTGACGGGAAATG
CTGTCTGGTTTTATTATGGTTTATAAATTAATAAATGGGCTATTTAATTCTGGAAAAAAA
AAATNAAAANNTNNNGTTCCGCGGGGTCCTGGAACATTTATGTTCCTTTTAAAGAAACAA
AAATCAAACTTTACAGAAAGATTTGATGTATGTAATACATATAGCAGCTCTTGAAGTATA
TATATCATAGCAAATAAGTCATCTTGATGAGAACAAGCTATTTGGGCCNCAACCCAATCA
NGGAAAAGAGAGCNCCACGTGATGGGAGTTTCTCCAGAAGCTCCAGTGATTAAGAGATGT
TGACCTCTAAAGGTTGATTTNAGGCCAGGCCNTGGTGGGTTTACGCCTATTAATCCCAGC
ATTTTTGGGGAGTCCGAGGGTGGGCCAGATCACTTGGANCTCANGANGNTCAAGATCAGC
CNTGGGGCAAACATGGGTGAAACCTTGTCTTTTCNTTAAAATTCCAAAACCTTTANATTG
GGCNTTGGNGGGTGGTGNNCCCATAAGGCCCCACTACTTGTGGGGGCTTAGGCAGGGAGG
GATACCTTGNNCCCCGGAGGTCGANGGCTNCCAGGNGAGCCAAGAAGTGCCCTACTGGAC
CTTGGGCCGGTNTAAAACTTAATNGGATCCCCCCGGGCTNGCAGGAAATTTNNNTTNAAG
CTTTTNNATACCCNNNNANCTNAAGGGGGGGCC

Sequence 5382

CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGAGATCCGTGCACTGCCTTCAGCTCTGG
GTTGAACTTACAGCTGGACTAGAGGATGGGAAGGCATCAAAAGGAACCCAGCCCACCAGG
AACTACCAGCTTAGGCTCTGACCAGGAAAGACAAGTGTTCAAAGCTTTGGGGAAACTTAA
ACCCAACACGCCATTTGCCGCGACGTCTTCAATGGGTTTGGAAACAGAGGAACAGGAGCC
CAGCATCATCGGGAAGCTGAAGGTCGCTGGCATGCTGGCAAGTAGGCAAAGAAGTCAACC
TGGTCCTACTGCTCAAAAACCTGAGCAGGGATACGAAGACAGTGACAGTGAACATGACAG

Table 1

CCTGGACCATCATCTACAACGGCACGCTTGTNCCTCGGCCGCTCTAGAACTAGTGGGATC
CCCCGGGCTGCATGGAATTCGATATCA

Sequence 5383

NTGGGCGAATTGGAGCTCCCCGTGNNNNNGCCGCCCGGGCAGGTCAATTTGATAAGTTTT
GACATACACTCTTGAAAAACCATTACCACAGTNNAAACAAACAAGCAAAAAAACTAAACA
TTGTCTATCACCTCCTACTTTTTTCTCTATAATCCGTCTCACCTGCCCAAGCCCCATATA
CCTTGGTATGCTTTGTTACTTANATTAGTTTGGGATTTTCTAAAACTNTATGTAAATAGA
ATAATACATTATGTATTATTTGNTGTCTGGATTCTGNNGGCTCAGCATAATTATTTNGAA
TTTCACGTTTTTGCATACATCAGTANGTTCATTTTCATATTACGNNNTGGTGTTATATTG
CATACAAATATTACAATTTGTTTATCCATTTCACTTGCTGATGGGATATTTGGGGTTGGT
TNCCAGTTTTAGCTATTTCAAATAAAAAATAATGGGGAACATTTATTTTACAAGTCTTNA
TATGGGATGTATGCCTT

Sequence 5384

CCGCGGTGGCGGCCCGAGGTCTTTTCTTTTCTAAAAAAAGTTTTTGGTTAGGGATTTGGT
TTTTGGGTTTNGNGTTTGNNTTNTCTTTNCTCTCTCAGAAAAAAAAATTTNATGCTTTAA
ATNAAATCCANAGACACACCCTTTCACTGCTGATGCANAAAAAGGGAAAGGGTTCTTGTT
CTTGAGAATTTGTTTCTGATTTAAACAAACNAGACTTAGTTTAATAAAAGAAAGANAAAA
ACANAAGATTCCCAGGTTGTTATGTGCTTCTTCTGCAAGCAGAGAGGCAAATGTTAATGA
CAATTCCATATNCCAAAAGACACATTTTTTACTTAAAGTTTTGTCCNTGTGTTAGGCAAG
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GCCCCGGGCGGN

Sequence 5385

CGCGGTGGCGGCCGAGGTACGCGGGGGGGTGGCCTGNGCGGCGTTGGTCCCGGTGCGTCC
TGTTCTACAGCTATGGCCCGGGCCAGCTGCAGCTTTCCGCCCGCTTGGGCGCCTTGTCCG
GAGCTGCGGCCTTAGGCTTCGCTTCTACGGGGCGCACNGNCCCAATTCCCAAATGCCTAC
GGGAAAGGAGCTGTTTGACAAGGCCAACAAACACCACTTCTTACACAGCCTGCCCTGTTA
GGGGTGCCCCATTGCAGAAAGCCACTCTGGGCTGGGTTATTGCTAGCTTCCGGAACGACC
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GCCCCTGCGGGAAGGGACCCTTGCTTCTCTTGGGCTGGCTTGCCTNNGCTCTTTGAGCTN
CCTTTTGCTTAATTACTGGGTTTTCTGGGCAAGTTTTTTTTTTTAAANAGTTTGGAGTNA
AAAAGAAGGA

Sequence 5386

CGCCCGGGCAGGTACATTGAGCTCTCTCTGGCATGCTCCCCACTCTAGTTAAGAGGGGCT
GGGGTATGGAGAAGACCGTCCCAGCCCGGCCGCTGCAGCCTCCTACTCCTGGGCCTCCTT
GCGGGTCAACTTGTAGATCTCAGTGGGTCCGTCACATGGGTGATAAGTGGGTGGGTGAGC
TGGAGTTCTTCCCCACTATGGACACCCAGATCGCCATTGGACTGGTCTTCTCATAGTTTT
TATGGGATGGTGCATACAAGAACATCAGAGCAAAGACATACAGATTCCACATCCCATAGA
TGCCTGTGAAAAAGGCACTTGTCACTTGGACTGTGATGCCGCCCCATTTCCAATGGCCTT
CCGTTACCTGACTAACGATGAAAAANATGACAGTCATGGCAACNCAGGCCAAGGTGATAA
GCATGANGAACTTGAACCTA

Sequence 5387

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TTGCTGAGTACCTTTCTCGGGGTGTCTGCGTAACTGCCCAGACTTGCCTTGGTTTGGTCA
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TCCGGTGTGTGAGTCACTCACCTGTGAGCTCCTAGAGGTCAGCGACTAAATCTGGTTCCA
TGGGGTCCTTGGGCCCTCGGAGCCCTAACACAAGGCCCACTACTCAGTTGGCTCTTAATC
AAATCTGTGAAACCAAATTATAAAAGTTGCTTTTCTACTAGACCTTGTTGGGACACCAAN
GAGCCCGCGTCGGTTGCTTAACTT

Sequence 5388

CGCCCCGTCCAAGACTATTTGTCTTTGAGCTCTGTTCTCTCACACGTGTCCGGCCTGGGC
TGGCTGGCCTCCTACCTGCCCTCCTTCCTCCGTGTGCCCAAGTGGATTATTGCCCTCTAC
ACTAGCAAGTTCTAACCCTCTGGCTGACACTACGTCTCTGCTTGTCTTCCCATTTGGACT
TGGTGGTTTGTCCTGTCTCAGTGAAACAGCAGCCTTTCTTGTTTACCCATACCCTTGATA
TGAAGAGAAGCCCTCTGCTGTGTGTCCCGTGGTGAGTTCTGGGGTGCGCCTAGGTCCCTT
CTTTGTGCCTTGGTTTTCCTTGCCTTCTTTTTACTTTTTGCCTTAATATTGAAAAATGCT

Table 1

CTTGGAGCTAATAAAAAGTCTTATTTCTCTTTNGGAANAAAAAATGNANGNATAANATAA
GTACCTGCCCGGN
Sequence 5389
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CAGCTCCAGCTTTGTGCTCTGCCTCTGAGGAGACCATGGCCCAGCATCTGAGTACGCGGG
GACAATTATGTGTCTTGGAGTTGCTCTTCTCGAGGAGTATCTTTCAGAAAGTTAAGAAGG
ATACCCAGGAATTGAACTCAGCTCCACACCAAGCAGACGGTAATAGACATCTACAGAACT
CTCCACCCCAAATCAACAGAATATACATTCTTTTCAGCAGCACACCACACCTACTCCAAA
ACTGACCACATAGGTGGAAGTAAAGTTCTCCTCAGCAAATGTAAAAGAACAGAAATTATA
ACAAACTGTCTNTCAAGACCACAGTGGCAATCAAACCTAGAACTCAGGATTAAGAAACTC
ACTCA
Sequence 5390
CCGCGGTGGCGGCCGAGAGCTAATTCCCTCTTGGCTTCAAAATCCATCCTATGCTTGGAG
ATGCTGGGGCTGGGATTCTACAAACCACATTCTGGCTTTGTGCCCTGATAGGCTCAGCCC
CCAGGGGGAGCTAGAAGGAATCTGCTAGGCTAAAGGAGGAAGTAGGAAGTGGCCCCTTGC
TCACTTCCTGTTTGCTTCCTGTTCACTTTCTATCAGCTTCCTGTCCCTTGCCAGACAGGT
TGCTAACCCTAGCAGTGCTTTTTCTTCACCCAGGCAAGTGGCAAACTCCTCCCAGAAAAC
ATTTTCAATGCAGTTTTTGGTTTTTTCCAACACTCACAAAAAGCCAGCCTTAATGGGGGG
GTCCCCCTTCAGAGACACCCAAACAA
Sequence 5391
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACCTGCAAGGCTGTCAACAGTCT
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AGGGGAAGAGGAAGAAGAGTGAAACAAAGCCAGAGAAAAGCAGTTTCTAAGTCATATTAA
AAGGACTATTTCTCTAAAACTCAAAAAAAAAAAAAAAAACTCAAGATAGTAAAAGCACCTA
GTGTGATAGATTATCGGTTAGGTCATTTGTGGGTTGATTCTTCANAAACAGCAGTTGATA
CCTAGCAGCGTTATTGATGGGCATTAATCTATGTTAGTTGGCACCTTAAGATACTAGTGC
AGCTAGATTTCATTTAGGGAAATCACCAGTAACTTGACTGACCAATTGATTTTAGAGAGA
AAGTAACCAAACCAAATATTTATCTGGGCAAAG
Sequence 5392
CCGGGCAGGTACCATCATCCGATGTATAGCCTTTCCAGCGAACTTTGTAAAGAACTTTAC
CCTCCTCGGTCTTCATGTCCAGGATCTTCTCCACCTCGAACACATCCTCTCCGTCCTCCT
CACTGTCGCCAAAGGCCTCCGCTCCTCTCGCGGCTGCGTCATTATCTTTCGCCCACTACT
CCAACTNCTTCTTCGACTTCGGCCAACTCCTCAGTGCTGTCGGCAGCTGACACAGGGACT
GCGGTCACCCTTGCTCCCTCCGCAACCTGCTCCATCCTAGCAGCTCCGCAAACCGCCGAG
AAAAAACCCCGCTGCGACAAACACCCCAAGCAGCCCCCGCGTACCTCGGGCCCGCTCTTA
GAACTAGTGGGATTCCCCCCGGGCTGCAGGGAATTCGATATTCAAAGCTTAATCGATACC
CGTTCGGAACCTTNGAAGGGGGGGGGGCCCCGG
Sequence 5393
ACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGAGGTACTTTTCTCGTCCTT
TCCCCAGGGTGCACGTAACCCTCAAGCACTAGGACCGTGCGGAATCCAGGCTGCGATGGC
ACCTTCATTTACCGCCCGCATTCAGTTGTTCCTCTTGCGGGAGCTAGGCTTTCTCATAGG
CTTAGTAGGCCGAGCAGCTTTAGTCTTAGGGGGCCCAAAGTTTGCCTCAAAGACCCCT
Sequence 5394
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGACATCAAGGACTCAAAAGCTTATTACCACC
TGCTTGAGCAGGTGGCTCCAAAAGGAGATGAAGAAGGTGTTCCTGCTGTTGTTATTGACA
TGTCAGGACTGCGGGAGAAGGATGACATCCAGAGGGCAGAATGCATGCTGCAGCAGGCGG
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CAGAAGAACCANGGACATTTGACTGGGGGGGGCTCTTTGAAAGGTGAGACCAAGAGAAAG
AGCGGACATTTTTAGGAACTGGATGAAACTCCCTTGGGGTGTTAACCCTTCGAGTTCAAA
TTCATTTTGTTACCTNNGGCCGCTTNTAGAACCTAGTGGGAATCCCCCGGG
Sequence 5395
CCGGGCAGGTACGCGGGTGATACCTTCCGAGTGGAGTTTCTGGTGGTCCCTGTGGGAGGC
CTCTCATTTTTAGTTAATCACGATTTCTCTCCTCTTGAGATCCTCTGGACCTTCTCCATC
TACCTGGAGTCCGTGGCTATCCTTNCGCAGCTGCNTATGATCAGCAAGACTGGGGAGGCC
GAGACCATCACCACCCACTACCTGTTCTTCCTGGGCCTNTATCGNGCTTTGTATCTTGAC
AACTGGATCTGNCGCTTNTACTTTGAGGGCTTCTTTGACCTCATTGCTGTGGTAGGCCGG

Table 1

800/863

CGTAGTCCAAGACCAATCCTAATACTGTTGACTTCTTTNTAACTTGNAACCCTNCGGGCC
CGGNTTCTTANGAAACCNTAAGNTGGGAATCCCCCCCC
Sequence 5396
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGATTAGTGTGCACAGA
GATCTCTGTAGAAAGAGTAGCTGCCCTTTCTCAGGGCAGATGATGCTTTGAGAACATACT
TTGGCCATTACCCCCAGCTTTGAGGAAAATGGGCTTTGGATGATTATTTTATGTTTTAGG
GACCCCCAACCTCAGGCAATTCCTACCTTCTTCACCTGACCCTGCCCCCACTTGCCATAA
AAACTTNAGCTAAAGTTTTGTTTTGTTTTTCAGCGTTAATTGNTAAAGGGGGCAGCCAGT
TGCCCAAAATTTTAAATCCAGAAGGAATAAAAGCCTTAAGGTTCAAAAAGTTTCAATAAG
AAGTTTCCCCCATTGGAACCTTATTATTGAACCTGGGCCCACCACCAGGGGATCCTTTTT
TGTTANTTTTAAAGGGATTTTCTTGAGGATTTTTTTGCCTTTGGAGCCAAGGGAATTAAG
AATAAAGGGCTGGTTTCTTTTAAAAATNGTCTTGNAAAATTGGGAAACCAANAATTTCAA
AAAAAAAAAAAANCCC
Sequence 5397
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGT
TTCGCCCTTTCACCCAGGCTGGAGTGCAGTGGGGCGATCTCGGNTCACTGCAACCTTCAC
CCTCCAGTTTCAAGCGATTCTCTTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCACC
CACCACCAAGCCCAGCTAATTTCTGTATTTTTAGTANAGATGGGGTTTCGCCATGTTTGG
CCAGGCTGGTCTTGAACTTTTTGACCTNAGGTGATCCACCCNGCCTTNAAGNCTTNCCCA
AAAGTGCNTGGGATTACAAGGGGAAAAAGGCACNCGNGGCCCAAGCNCTGCACAGTNACT
ATTTTTGAGGACTTTACTTAATTTTTGAAACATGGATTTTTTTTCTTTNAATTCTTCACT
TCCAACTTTTTACCCTAAAATAAATTCNATTTTTTAAAAAAAATTGCAAAAAATAAATCA
NCCCCTTTTTTAA
Sequence 5398
GGCCCAGGTGTGTAGGCCACAGCAGCCGCAGTCCTGAAAGGCTGCAACACCCAGACCTCC
AGGAGAGGCCAGGCCCAGGATGCCTCGCCTGTTCTTGTTCCACCTGCTAGAATTCTGTTT
ACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCAAATGGAAAGGACGAATGTTATTAAA
TTATGCGGC
Sequence 5399
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGANGTNCTTNNCTCGAAAAAAGCGGAGTA
AGGAGAAACTAACNGTTNNCTTANCTNNAGCCATTCANAATAGGACAGTNTCTTTTTTCC
ATTATGTAAAGAATCCAGAGTATATCNCAATAACCGGAATAAATTCTTACAACNGGAATA
TACAAAAACATTTTGAAATNTTTTTTCATCTACTGATTTTTTATATAAACAGGATTTTTT
AGGAATAATTTATACACAGAAAGTCATTTTATGTAACAAATTGGCCATGTTATTACCTTT
TTTTTTCTTACTTAAAAAAATTTTTTTTNAACANGAAAACTCANAAAATGCATTATTTGC
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ACAGGTGTTTTCACCCGGGCNGTNTNNTCCACCGGTGGGATGTGTGTGCAACGCCCAAAC
ATCCAAATGAAAAAGTTGG
Sequence 5400
ATAGGCGAATTGGACTCCACCGNGGTGGCGGCCGCCCGGGCAGGTACCTGATTTTTCATG
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TATGCAAAGGACCACACTGTCTCTGCTTNCAGGAGTATTTTAGAAATGTTNCACAATTTA
CTGNAGACATANAGATGATGCTGCTGCTTAGGTGCCTTTTAGCAAGCTATGCAAACAATC
CTGATAAAACAAGATACATAGATGAGTCAATCTGGCTTCTGAGAATTTACCAAGTGAACA
GAGTACGCNGGGGGATGAATCGTGGACTACAAGGCGTTCATCC
Sequence 5401
CCGCGGTGGCGGCCGCCCGGGCAGGTACGGCCAAGGGCTATTGGTTGAATGAGTAGGCTG
ATGGTTTCGATAATAACTAGTATGGGGATAAGGGGTGTAGGCGTGCCTTGTGGTAAGCCC
GCGTACCATCTTTTCCAGAGAGAGAAAGTGGAGGTCCAGCTGCCAGAGCTCTACCACAAA
ATAGGTGTTGGCGCAATGGCATGGTCTCCACTTGCCTGTGGAATCATCTCAGGAAAATAC
GGAAACGGGGTGCCTGAAAGTTCCAGGGCTTCACTGAAGTGCTACCAGTGGTTGAAAGAA
AGAATTGTAAGTGAAGAAGGGAGAAAACANCAAAACAAGCTAAAAGACCTTTCCCCAATT
GCNGAGCGTCTGGGATGCACACTACCTCAGCTAGCTGTTGCGTGGTGCCTGAGAAATGAA
GGTGTGAGTTNTGTGCTCCTGGGATCATCCACTCCTGAACAACTCATTGAAAACCTTTGG
TGCCATTCAGGTTCTCCCAAAGATGACATCACATGTGGTAAATGAGATTGATAACATACT
GGNGCAACAAGCCCTACAGCAAGAAGGACTTTTGGATCATAAGGGCAATGCATGAACCAC

Table 1

AANAAGCTGCATGGGTTAA
Sequence 5402
CCGCGGTGGCGGCNCGCCCGGGCAGGTACGCGGGGACACAGGGCTCTTGCTCTNGCAGAA
TCCACAGGTCTTTCTTGAGGAAATNTGTNGACAGAACTTTGTGCTGCGTTTTTATCTANG
GAAGGAACAGANNAGTGTCGCTCCTAGAAATCTAGCACTGGANAAACGAGGAAAATTCTT
CCAGCGATGGTCTNCCACTCANAGCTGAGGAAGCTTTTCTACTNAGCANATGCTGTGTGT
TTTGATGTTGACAGCACGGNCATCAGAGAANAAGGAATCGATGAGCTANCCAAAATCTGT
GGCGTTNAGGACGCGGNGTCAGAAATGGAGCTGGTGAATATGCANGTTTTGATGAGACGC
AGCCAACAGCTGAATCTGGTGGAAAAGGAAAAGTNATTAAACTTTTAAAGGAAAAATTTC
ATTTTAAGAAAATAA
Sequence 5403
CCGCGGTGGCGGCCGGGGCTGGCGCGGTGCATCGTGGGCACTGTAGTTTCCGCCGCGTTT
ATGGCCGCGTTAAGTCTGAGTGCCGCTTTGAGTTGTTGAATGAAGTGAACTTCATTTGTC
AGCGTTCGGTACCT
Sequence 5404
AGGTACGCGGGGAGAGACCAGAGCTGCCACCGCTGCTGCTTCCAGGAGTGTGCAGGTGGC
ANCTGCCGCTGAGCCCGCGGCGGAGGATGGCAGGNCTTGTTCCAGAAGGCTTGAGGGTCC
CCGANTGCACCGCCCTNCCACCAATTCTGGTTTTTCCTGTNGGAGCCCAAGGAGCAAGGG
CANAATGAGGAACATGATGTTTCTTACCGACAGTTACTCATGACGTCTCCATCCAGGACT
GAGGGGGGCATCCTTCTCCATCTAGGACTGGGGGCATCCTTCTCCATCCAGTATTGGGGG
TCTTNCTCCTCCATCCAGGACTTGTGGGTCATNCTCTTCATCCAAGAACCTGAAGGGTGT
CCTTTTCTGCGCTTCCTTGGATGGCANTCTTTCCCTTCATGTTTATAAGNGACTTACCAT
Sequence 5405
TATACGGCGAATTGGAGCTTNCCGCGGTGGCGGCCCGCCCGGGCAGGTACTGAGTATAAA
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AAGTNTGGGATTACAGGCATGAACCACAGCGCCCAGCTTAACAGGATTTTTCAGAGAGAA
AAAGTTTTTTAATTTTAATGAAATCCACCAATTTATCTATTTTTTCTTTTACGGCATGTG
CTTTTGGTGTAATGTCTAAAAACTATACCTACGCCTAGGTTGTAAAGATAGTCTGTTTTC
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TTACATGTAAGGTTGGGGTTCCTTTGTTTTGGTCTTTGACAAATGGAAGTCCACAACATT
TATTGAAACTCTTCTTCCTCCATTGGTTTTAAGATAAATCCCGTTGGCCATACTTCTGAA
TGTCTATTTATGGATTCCCTATCTTATTTTATTGATGNGTATTTTTGGNCTCTCCTCCAT
GGATACATGAAGGAAANGGCCTTGGACCAAGGCAATGGGGAAAGGGGCTGGGGGGCCCCC
CAGAGAAAGGAGAAGGCNCTAAGATCAGGCTCAACAGCTTCTGGATCTGAGGCCCCGGNA
ATATTTATNGGGTNAACTTGGCANNCCCTGGGCCTAAGTAGGACTGGTTAACANTGAAAA
GGCGTNCTGGGGGCAACCCAAAAGGTACCTNGGCGGTTTAAACTAGNGGATCCCCCGGCT
GNAGGAATTCNATTTAANCTTTTGATNCCGCNACCTNNAGGGGGGCCCG
Sequence 5406
TGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGACACCATCCCTTCCATTGGACTGGCT
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GAAAGCCTGCGTAAAGAGCTGGTGGATATGCTAGGTGATGATGGTGTGTTCTTATATCCC
TCACATCCCACAGTGGCACCTAAGCATCATGTCCCTCTAACACGGCCCTTCAACTTTGCT
TACACAGGTGTCTTCAGTGCCCTGGGTTTGCCTGTGACCCAATGCCCACTGGGACTGAAT
GCCAAAGGACTCCCTTTAGGCATCCAGGTTGTGGCTGGACCCTTTAATGATCATCTGACC
CTGGCTGTGGCCCAGTACCTTCGGCCCGCTCTAGAACTAGTGGGATCCC
Sequence 5407
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TCTCCGCCATCGTGGTGTGTTCTTGACTCCGCTGCTCGCCATGTCTTCTCACAAGACTTT
CAGGATTAAGCGATTCCTGGCCAAGAAACAAAAGCAAAATCGTCCCATTCCCCAGTGGAT
TCGGATGAAAACTGGAAATAAAATCAGGTACCTGCCCG
Sequence 5408
CCGGGCAGGTACTACTTCTCCAAACTCATAGAATTTATGGACACTTTCTTCTTCATCCTG
CGCAAGAACAACCACCAGATCACGGTCCTGCACGTCTACCACCATGCCTCGATGCTGAAC
ATCTGGTGGTTTGTGATGAACTGGGTCCCTGCGGCCACTCTTATTTTGGTGCCACACTTA
ATAGCTTCATCCACGTCCTCATGTACCT
Sequence 5409

Table 1

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTCAGAATTGACCAATTCAGGAGGTGTAAAAA
TAAACAGTGTTCTCTTCTCTACCCCAAAGCCACTACTGACCAAGGTCTCTTCAGTGCACT
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TTTTATGTCCTCCCAGCAGACAGACATCAAGGATGAGTTAACCAGGAGACTACTCCTGTG
ACTGTGGAGCTCTGGAAGGCTTGGTGGGAGTGAATTTGCCCACACCTTACAATTGTGGCA
GGATCCAGAAGAGCCTGTCTTTTTATATCCATTCCTTGATGTCATTGGCCTCTCCCACCG
ATTTCATTACGGTGCCACGCAGTCATGGATCTGGGTAGTCCGGAAAACAAAAGGAGGGAA
GACAGCCTGGTAATGAATAAGATCCTTACCACAGTTTTCTCATGGGAAATACATAATAAA
CCCTTTCATCTTTTTTTTTCCTTTAAAGAATTAAAACTGGGAAATAGAAACATGAACTGA
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GAAATCATTCCTAAATTAACCTTTTTTTAAAAAAAAACAATGGATATTATGGTCCCGGGN
GGTGNAATTAAAAAAAAAATCTTTACTTGGATATTCATGTAATATATAANGGTTNGGGNA
ATGNACTTTTATTAGGNAAAACTGGCTTAACTTTCATNTGTGTAAGTGGAANCAAAGGNG
NCATAATTTCNTTATTTTGGGNAATAATGGNTTTATAAAATTTT

Sequence 5410

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTT
TTTTTTTTTTTTTTTTTTGGGACAAGATCTTGCTGTCACCCAGGATGGAGTGCAGTGGCA
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GGGACCACAGGCACGTGCCACCATGCCCAGCTAATTTTTATTTTGGTAGANACAAGGNTT
CACCATGTTGCCTAGGTAGGTTTCAAACTCCTGGACTCAAGTGATCCTCCTGCCTCGGCC
TTCCACAGNGTTGGGATTACAGGAATAAGCCACTGNGCCCGGCCCTTTTTCTCTTCTGTA
ACAGAGTTTATTACTGCCTAGCTAGCAGGTTATTTGGCCCTCACATGTGTTGAGGCAAAC
TCTATACTATATTCTTACTC

Sequence 5411

GGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGTAACCACCTGGGAAAACTTCACAG
AAAATGAGAGTTTCAGATACTGAGAATAGAACCACTAAGAAGCAGAAAAGAGAAGATATT
CTCGTGGGGGAGAACAACGGCTGGGAGGGGAGGAAGCATGGCCAAGGCAAAGAGGTGGGC
ATTAATAAGAACTGCTTCTTGCTGCCGCCATATGAAGAAGGACGTGTTCGCTTCCCCTTC
CTCCATGATTGTAAGTTTCCTGAGACCTCGCCAGCCATGCTGAACTGAATACAACATGTT
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GAAGACAGATGGGATAGAGGAAAAGACAGAATCAGATACTGGATGAGTTTAGTACCTGCC
CGGGGCGGCCGC

Sequence 5412

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGCT
GAGGCAGGAGAATCGCTTAAACTTGGGAGGCAGAGGTTGCAATAAGCCGAGATTGCTCCA
CTGCTCTCCAGCCTGGGCAACACGAGCGAAACTCCATCTCAAAAAAAAAGAAGAAGAAAA
GAAAAATGGCAACCCAGGTATGCAACTAGAAAAATCCAGACTATGGAAAAACCCTGCAGG
ATAAAAGATCAATTTCTTCAGCAAATAAATTGTCTATGGTGTGTGTGTGTGTGTTTGAAG
TGGGGAGTTAGAGGCGTGAGTGAGCATAAGCCAACATATTCATTATTATTATTATTATTG
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TGCAGGGAATTCGATATCAAGCTTAT

Sequence 5413

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCGCCCAGCTCCTTATAGA
GGGTCTCCATGTTAGAATGCATCATCCGCAGCTTGTTATACTGTTCCTGTGCATCCTTCA
CAAAGCTGGTCATTTTTTCAACAAACTTGTCTTTTTCATCTGTGGCAGCTGGGAAATTCT
GAACATCACGTTCCACATCAAGAAATTTGTTTCTTCATCTGATCTAGGTTCTTTTGCAAA
GTTTTTCAAGCAGAAACTCGGCTGGCTTTCTNCACATGGGCAAAGCTCGTCTGGAAACTT
GAGGACATCGGGGATAGTCAATTCTTCCCCGCGTCCTGCCCGGGCCGGCCCGCTTCTTAG
AACTAAGTGGGATCCCCCNGGGCTGCAAGGGAAATTCCGATATTCCAAGNCTTTATCGGA
TACCCGTCCGACCTCGAANGGGGGGGGCCCCGGTACCCAGCTTTTTGTTCCCTTT

Sequence 5414

ACTCCTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGT
GGTTGGGGGAATTGGAGGCTTCTAGGAGAGGAGCTGGAGGCCACGGTTCAGGAAGTCCTG
GGGAGACTGAAGAGCCACCAGTTTTTCCAGTCCACATGGGACACTGTTGCCTTCATTGTT
TTCCTCACCTTCATGGGCACCGTGCTGCTCCTGCTGCTGCTGGTCGTCGCCCACTGCTGC
TGCTGCAGCTCCCCCGGGCCCCGCAGGGAAAGCCCCAGGAAGGAAAGACCCAAGGGAGTG
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Table 1

TCTGTCTGCCCAGAAAAAAAANAAGAAAAAAAAAAAAAGGTTCCTNGGCCGCTCTANAAC
TAGTGGGATCCCCCGGGCTG
Sequence 5415
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GCCCATTGTGTCCTTGCCCAGGACCCCGAGAACCAGGCGCTGGCGAGGTTTTACTGCTAC
ACTGAGAGGACCATTGCGAAGCGGCTCGTCTTGCGGCGGGATCCTTCGTGAAAANGAATT
TTTTGCCAAGGTGCTCTTNCCTTCTTGTCCCGGGCCTNACCTGCACCCANCGCCNAAAAN
CCTTNAAGGGANNACNCTNGANCNTACCTTGGCCNNTNTANAACTAANNGNNTCCCCNGG
CTNGANGNATTTCATNTTAANCTTATTNATACCCNTCCGACCTTTNANGGGGGGCCCG
Sequence 5416
ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGG
GGGAATGTAAGGGCCACTTCAGCAACAGAAAGGAGTGGTGGAGCGGCTTCTCATCAGAAA
AACAGAACTTTCAGTGCCTGACTTGAGATGTAAACTTGATGGGAAAAATTATTTTAGTTT
TGGAAAGATCCTCTTCAGAAATACCACTATCTTCCTGAAGTTTGATGGAGAACCTTGTGA
CCTGTCTTTGAATATAACCTGGTATCTGAAAAGCGCTGATTGTTACAATGAAATCTATAA
CTTCAAGGCAGAAGAAGTAGAGTTTGTATTTGGAAAAACTTAAGGANAAAAAGAGGCTTT
GTCTGGGNAAAATNTCAAACATCATCAAAAAATTGGTTCCNAGAAACTGCCAGTTGGAAC
TTCTTTTAAAACCACAAGACCTTTTTCTTGGAGA
Sequence 5417
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAGAGTGAGGATTT
TCTGCAACCTGCGTTTGTCCCTCCAGCATCTGCTCTGGCTCCATGGCGGACCCTGCAAGT
CACAGTCCCCGGATACCAGTCCGCGCCCAAGCCGTTCGTTCTTAAGAGCCCTGCACTGCG
CCACCAGCTCCCAGCACAAACAGCTC
Sequence 5418
CCGCGGTGGCGGCCGAGGTACNAGGGCATCCCTGGGTGGCCGAGCCCATCAGGCCCACCC
CAGGCTCTAGTGAGGAGTGCGGTGGCTGTCCAGGACATCTGAGGACATCGCTGTGGGGCA
GGCATTGTGGGATGTGTGTAGCTCAGTGGAGGTGGGGAGGAACGGGGAGAGCAGGTGCTG
GCAGGGAATGAAAGCCCTACAGTGTAAGAGCTGGATGAAACTTCAGAGCTCATCTAGTCA
AAGTCCCTCATTTTACAGATGGGGAAACTGAGGCACTGAGTGGGGAACATGACTCCCCCT
CNGAGACAAAANCCAGGGCTGGAAAGCTGTGTCTTCAGAGCCTCAAGCCCTATGCTTTTT
TTCTCCTTANAGTATTGCTGCCTTCCA
Sequence 5419
AGGTACAAAGATGAATGCAACACGGTGCCCGCCCTGAAGAGCACATAGTTCAGCTGCCGG
CCCCGCGGCGGCAGCGCGCTGCAGCCCAGGCTGATGTAGACAGGCAGCTTCTCCTGGGTC
AGCGACAGCCGGTACTTTTTTTTTTTTTTTTTTTTCGGCCTAAAAGCGGTAGAAATTTAA
TAAATAGATATGAATTGATTGATTCATTAATAGTATAAAAAGAAAATTTG
Sequence 5420
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGCTGCCCAAGG
GCGTTCGTAACGGGAATGCCGAAGCGTGGGAAAAAGGGAGCGGTGGCGGAAGACGGGGAT
GAGCTCAGGACAGAGCCAGAGGCCAAGAAGAGTAAGA
Sequence 5421
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGGTTC
TGCCCTGCCTGAGGAGGAGGACACAGCACAAGGGCACATTGCCCATGGCTGGGAACATGA
CCCAGCCTGAAAGATACAGGGGATCATGTTAAAAATAGCAGTATTATTTTTCGTCTCAAT
GGTATTGTAACTAAGTTATTTACTCCTCCTGCTCCTCACCCCTGTAGGGAAACCTTGGAG
AGGAGAAGTGGCAGGTGGGCTGCCTGCTGTGTTAAGAGGACTTAATTTGTGATGTAAGGC
ACTTGTCAGGAATGGGGGGGG
Sequence 5422
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NCCNNAAATTNGGGGAAAAAANTTTTNNGGGCCNTNATTNAANNATTTNGGGGGNTTTTT
TTTTTTTNANCNTGGNNNNNNAAANNNNNTTTTTTTTTGNNNTNGGGGGGGAANCNANTT
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NNNNTTTTTNTTGNAACTTTTTAAA
Sequence 5423

Table 1

804/863

GACTACTATAGGGCGNTCNGANCTGGNGGCGGCCGAGGTACGCGGGGCACTCCTCTCTCT
CTTCCTCTCTCACACGTTCTCCAACCCAAGGAGGCCAGACAGAGGGACGTGGTCACTCTC
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CTTTCCTCTCCCAGGCCCAGTATGAAGATGACCCTCATTGGTGGTTCCACTACCTCCGCA
GCCAGCAGTCCACCTACTACGATCCCTATGACCCTTACCCGTATGAGACCTACGAGCCTT
ACCCCTATGGGGTGGATGAAGGGCCAGCCTACACCTACGGCTCTCCATCCCCTCCAGATC
CCCGCAAGGACTGTTGGAGGAGAGTTAGCCCAAGTATAGGCTCTGCCCAGATGCCATCAC
ATCCCTGATACTGTGTATGCTTTGAAGCACCTTCCCTGAGAAGGGAAGAGGGGATCTTTG
GACTAGGTTCTTGGCTCCAGACCTGGAATCCACAAAAGCCAAACCAAGCTCATTTCAACA
AAGGAGCTCCGATGTGAGGGGCAAGGCTGCCCCTGCCCCAGGGCTCTTCAGAAAGCATCT
GCATGTGAACACCATCATGCCTTTA

Sequence 5424

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TCAATTTTTAAATATTATAGAATAAAATGTGCCAACATTTTAGAAGATTTGCATAACTCA
GTGACCAATACTTTTCAAATGACCAAAACATAATGTTACAAAATCATGCATGGATAAAAG
GTGCATTGAAAATGCAAATGAGGCCAGGTGTGGTGGCTCATGCCTCTAATCCCAGCATTT
TGGGAGGCAGAGGCTGGAGGATCACTTGAGGCCAGGCATTTGAGACCAGCCTGGCCAACA
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Sequence 5425

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GCACCCANCCAATATAGGACATANNTTNAGNATATAAGNNCNTNCTGCNNCNNCCAGTAA
AGCAATGTAATCTATCCTACCANNAAGTAGAGACTNCCTACACAGNAGTGAAAGATCTAG
CCATTTCAAGAGGGCAAGGGACAATTCTGTAAATAAATTGCANNTAAGNAGTTCCTTACT
ACNCACAACATGCTCTANTNGTGNGGANGAAATTAATNCTTATCCCNAAGAAATATACTT
TTCCNAGTAATGATAGGCTTCATATAAGNGGAATCTAAAAATGCTTTAACAATTCTACCA
TNNCNGCGTACCTGCCCGGGCG

Sequence 5426

CCGCGGTGGCGGCCCGTCGCTCCCCTGCTCCTCCTTGGTGGCTCTCTCAGAGGACTCCAG
AGTTGTATCCCCAGGCCGTCTTGTTTGTTCTGCACTCCTGCTCCCCTTAAATAGCTCCTC
CCTCTCCCCGCGTACCTGCCCGGGCGGCGCTCTAGAACTAGTGAT

Sequence 5427

CCGCGGTGGCGGCCGCCCGGGCAGGTACCGGAGCCCCAGCCCTGGCCCTGAGGGAGAAGG
AAGTCAGGGCCGGGGCTGCCCCAATCCTGTCTCCTGTGCGCAGGTGAACGGATTCAACAC
CCTTGGGGAAAACATTGCTGACAACGGAGGGGTGCGGCAAGCCTTAGGCCTACCTCAAGT
GGATGGCAGAGGGTGGCAAGGACCAGCAGCTGCCCGGCCTGGATCTCACCCATGAGCAGC
TCTTCTTCATCAACTATGCCCAGGTGTGGTGCGGGTCCTACCGGCCCGAGTTCGCCATCC
AATCCATCAAGACAGACGTCCACAGTCCCCTGAAGTACCT

Sequence 5428

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TCACTGCAACCTCTGCCTCCTGAGTAGCTGGAATTACAGGTGCCCGCCACCATACCCAGC
TAGTTTTTGATTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACT
CCTGACCACTGATCCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCA
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TTATCATGAGGAAAATGTTTTGGCTGAAAAACATATGCCCAAAAAAAAAAAAATCAGTTTT
CACTATTTTTCCAGCTTGCCTAGGGAAACGT

Sequence 5429

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CTTAACTCCCACAAGCCTGCCTTTTGGCTACCCATCCCAACAATATCAAGAGGGAATGAC
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Table 1

AGAAAAGGAAAAATGAGTATTTTGTTTTTCATCTGTTTTGTATTTAAAGGCATTGGGTTA
CTTCCTCCTGCCCTCTTTTCTTCCCTGAACAAGAGTTTACAACTCCTCATGGCTTCTTAA
TAGGTGAAAGTAGGTGAAAAGCCTGAGAAGCTCACAGCANGGTTTGCCCGTCCCAACTAT
GCACTGAGANGTCGCCCAGCTTCTGTGCCTTCCCAGCCCCACTATAATTTGGCAGTATGT
TTGGGTCATGTTTCCTGAAAACATTTTCTTTNAAAANGGAAAAGAAAAAAATGNCCAACA
ACCCCCNNCCCAAAAAAAAAAAAAANGAAAAAAAAA
Sequence 5430
GCGGCCCGCCCGGGCAGGTACCCAGACAGGATCATGAACACGTTTAGTGTGGTGCCTTCG
CCCAAAGTGTCAGACACAGTGGTGGAGCCCTACAACGCCACCCTCTCAGTCCACCAGCTC
GTAGAAAACACAGACGAGACCTACTGCATTGATAACGAGCTCTCTACGACATTTGCTTCA
GAACCCTAAAGCTGACCACGCCCACCTATGGTGACCTGAACCACCTGGTGTCTGCTACCA
TGAGTGGGGTCACCACCTGCCTGCGCTTCCCAGGCCAGCTCAATGCTGACCTGCGGAAGC
TGGCTGTGAACATGGTCCCGTTTCCCCGGCTGCACTTCTTCATGCCCGGCTTTGCCCCAC
TGACCAAGCCCGGGGCAAGCCAGCAGTACGCGGGGTAGAAGACATTGCTATTTGAGCTTT
AAAATGTAGTAATTTCTGAATTACCAACAAGACCTTATTTAAATGCTGAGAGCTGCATTA
TGATGAAGCATTAGTCTAGCTGGATGATTTCCAGATGGATTTTTAAACATTAATAAATGT
TTCACATTTATTTGATCAATAAATGCATATATATGCTTTTAAAAA
Sequence 5431
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CCTTTTTTCCCTTTTATGAAGTTGAGAGGCTTTATGAAATAAGTTGCATTGCACATCCGT
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TGTTACAAAGCTTCATAATTTGTCCCGAAGCATATGGTGGAGCATTCTGAGAAATTTGCT
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GCAGTTTCTCTGCTCATGGAGGTCTTGGTTGGATCTGTGCTGGCGGNTGAGCATTTAGTG
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GGNNGGNTGGAGGCCACCNNNNCTTTTTGGGAACCTTTTGNGGCTTTCCAAGTNTNNCNG
GCNANGGGGGGGCCCNNNCCCTGGGGGG
Sequence 5432
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AAGCAACCACTAAAAAAATTAATACAAAAATACAAAGAAATATATTTAAAAAACACTACA
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CAGGCACGCGCCACCGCGCCCGGCCCCCGCGTACCTGCCCGGGGCGGCCGCTCTAGAACT
AGGTGGGATCCCCCGGGCTGCAGGGAATTCGATATCAAGGCT
Sequence 5433
CCGCGGTGGCGGCCGAGGTACTTCACTGCTCTAAGTAGGTGCCCCACTTTGATAAAGTGC
TGTCCCAGTCTGTGCTGTCCCAGTCTGGAAGGGTCGCTACCCATGAACGTAGCAGCCATC
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GTCTGAAGGGCAGCATATGCAGTTACTAACTGCTTCCCAGTCCAGGGGGTCATTATCCAT
GAACATACCCATCCTGCTATTACTAACTGCTTCTCTATCAATAAAGACAAGCTCAGCTCC
ATAGTTGGGGCCAAAAGCCTACTGGCATACTCAAGCACTCCGTGCACTGCTATAGGCCCT
AACTGAAACTATCTTGTGGTCACATGCACATCTAGCCTAAATGGGCACCTCTGATCAACT
AC
Sequence 5434
CTCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAACAAAT
CCAGAATATGAAGACTGCAATAAATATCTAACTTTTTAATGCCCAGACACTGACAAACAT
CCACAAGCATCAAGACTATCCAGGAAAACATGACCTCACCAAACAACCTAAATAAGTCAC
CAGATCCCAATTCTGGAGCAACGGAGATATGTGACCTTTCAGACATAATTCAAAATAGCT
ATGTTGAGGACACTCAAAGAAATTCAAGATAACATAGAGAAGGAATATAGAATTTTCTCA

Table 1

GAGAAACTCAACAAATATATTGAAATAATTAAAAAGAATCAAGCAGAAATCTTGGAATTG
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GATCAAGCAGGAATTAAAAATTACTAAGCTTGGAA

Sequence 5435

ACGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTT
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CCCTTGCTCCTTAATGGCAGAGTAGCTNCATAAATTATTTGGAATGCTACATGGCAAATT
TATCTCTTTCCCCCCTCTTTTTAGTTATCTATCACTAATTATNTNTCAGTNTGGACTCAT
GGATATTTATTTTATATTTCGGGTTACAACTTGTTAGNATTTAATTTNGTNGTTCAAATA
GTTCCTTCCAGCTTGGGCCACTGGGANCTCTTCAGCTGGCTCCTGNGTCCCTCTGACATG
CCCCCTTNATTGGGGGGGGTTTTTTTAAAGCCCTTTA

Sequence 5436

CCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGGGGGGGGAAGCTGAGGGCTGAGACCAAGG
GCTAAAGCTGGGAGACTGAAAAAATGCAGACCGCCGGGGCATTATTCATTTCTCCAGCTC
TGATCCGCTGTTGTACCATTATTTTATGTTGTGCCAGTGAATCCGGTTGCCAGAAAATAA
GTCTGAATGTTTTCATGCATCTTTTTCTTAAATGCAAGAGCTTCTACTGACTCTTAACAA
GCATGCTTACCCAAATTTTGTTGCATGCTTTTAAGTAGCATTAGCTATGCACACTTGACA
TTTTTAAATATCCCTTTCCTAGTGTACCT

Sequence 5437

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTAATAAGACACCTC
AGAAGTCAAACAAACCTAGTTTTTACTAAAATGATGGGATAAAGGTAGTGTCTATGCTGA
AGAGCAGCTTCACTTGTTTCCCCACAGAAAAAGGCCCAAAATTTTTGGAGGATAATTTAA
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GGCCAAGGCGGGCAGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGTTAACATGGCG
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CCCAGCTACTCAGGGAAGCTGAGGCAGGGAGAAATCATTTGAACTCGGGGAGGTGGGAGG
CTGCAGTTGAGCCAAGGATCACACCATTGC

Sequence 5438

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACTGGAGGCT
GGAGCCTGCGGATGGCATGGCTCTGCGGCTCACCTTGCTGCAGTTGGTGGTGGTGACAGA
GACTGCAGCTTGACTGTAGTGAATTTGGAAATTATCTGTCTGGAAGCTCTGAGTTTATCT
TGGGACCTCAAGAGGAGAGGGATCACCCAACTCACAGCAATCAAACTCCAAATGGTGCTA
TAAACTGAACCACACATGGACACGTCAGTCTTCCGAGGACCTTTAGATCAACCCCAGGAG
GAGCCCTAGCTGCTGTTCCCCATTCGACGCCCCTTTCCAGCAGGAAGTAGCCAGAAGACA
TCGTCGCCCAAACCTCTAACAGCAGTTAGTGCCGGCATCTCCACAGGGGGGNAATGTTGT
AAGCGAGTTATTGATAAATTATT

Sequence 5439

NCNAGGGTACGGCGGGGGACACAGGGCCCAGGTGTGTAGGGCCACAGCAGCCGCAGTCCT
GAAAGGCTGCAACACCCAGACCTCCAGGAGAGACCAGGCCCAGGATGCCTCGCCTGTTCT
TGTTCCACCTGCTAGAATTCTGTTTACTACTGAACCAATTTTCCAGAGCAGTCGCGGCCA
AATGGAAGGACGATGTTATTAAATTAT

Sequence 5440

TATAGGGCGAATTNGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTT
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GNAATGGGGGTTTTTGNTTTCGGGAGAAAGNTGNGNTTGNGNAANACNTGAACANAACTT
CCCNNANNCTNNGNTNGGATNATACNNATGAATGGNCACTNGATCAAATAAAGGCAAACA
CTGGANNCTCNAAAAAAAAA

Sequence 5441

TATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNCNNGCCAGGTACACA
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ATGTGTGGATTAA

Sequence 5442

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TNTTGGANTNANGTTNATTAGGGACTNACATNTAATACGTGTATTTTTGTTTCCTCACCT
TTAGGCACAGACCCCACAGGCTCCTCGGACACTGGGTCCATCACCTCCTGCCCCATCATC
CACTCCAACACCAACAGCCCCTATTGCCACTCTGAACCAGCCTCCACCACTTCTTCGTCC

Table 1

AACACTGCCTGCTGCCCCGGCTCTTCACCGGCAGCCTCCTCCACTCCAGCAGCAGGCTCG
GTTCATCCAGCCCCGGCCAACTTTAAATCAGCCTCCACCACCTCTTATTCGCCCTGCTAA
TTCCATGCCACCCCGTCTAAACCCAAGACCGGTGGTTGTCCACGGTTGGGTGGGTCAACA
GCCACCATCACTTTATTGGGAAAT

Sequence 5443

TCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGAGGTACGCGGGGATGCTGCA
TTGTGTCGGGAGTTGCTGACAGCCATGGCGCCGCAGGTCTGGCGTCGACGGACCCTGGAG
CGGTGTCTGACGGAAGTCGGCAAAGCCACGGGTCGGCCCGAGTGCTTCCTCACGATTCAA
GAGGGATTGGCATCAAAGTTCACTTCTTTAACAAAAGTGCTTTATGACTTTAATAAAATA
TTAGAGAATGGTAGGATCCATGGAAGCCCCTTGCAAAAACTTGTGATAGAAAATTTTGAT
GATGAGCAGATTTGGCAACAACTGGAATTGCAAAATGAACCAATTTTACAATACTTTCAG
AATGCAGTTAGTGAAACAATTAATGATGAAGATATCAAGTCTTCTCCCAGAGAGTGAAGA
ACAGGAACCGT

Sequence 5444

GCGAATTGGATCTCNCCGCGGTGGCGNGNCCGCCCGGGCAGGTACTTTTTTTTTTTTTTT
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CCCGTTCACGTTCCCTCTCTCTCTCCCGCTCCCTGTCTCGTTCTCGTTCCCGATCTCTCT
CTCTAGCCCTTTCATCTCTCCTATCATCCACTCTGTCTACTCTTCGTTCCTCTCTTCTTT
CATCACGCTCAAGCTCGTCATTCCTTCCCTGATGTCGAATTGGTGAGCTTGGTCTTTGAT
CTCTCTCTCTGTTGTCACGACGGTCTCGCTCTCCATGTCTTCTCTCAAAGGGAAGAAATC
CCTTGCTTGATCTCTGTTGNCTCTTTCAAGGGATATCTATCCTCTTT

Sequence 5445

CGCCCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTAGAGATAGGGTCTTCTCTGTCACC
CAGGCTGGAGTGTGGTGGCACGATCTCAGCTCACTGCAACCACTGCCTCCCGGGTTCAGG
CGATTCTCCTGCCTCAGCCTCCCGAGAGCTGGGGTTACAGGCGCCCACCACCACGCTTGG
CTAATTTTTGTGTTTTTAGCAGAGACGGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGA
ACTCTTGACCTGAAGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATGACGCGTGA
GCCACCATGCCCGACGTGAAGACAGGAATTTATACCCATGGAGTGCAAGAAGGGACCTTG
TAATTTTTAACACGTGACACTTAAGTGGCAGATGAGACCTAATGAAGCCAGGCCCACCTT
CACACCAAGATTATAAATTCCCCTGGAGCAGAGATTAAATGTTTTATTCACCAACATGCC
CAAGATCCCTCGCAATGCCTACGCTTTGACAAACACCTGTTGGTCAAACAAAGTGCACGA
AGCAAGCCTAGGGAGGAAAAATTAGCTTCCACCAAGAGAAATAACTCGGGCCCTAACAGC
TAAGAAGTTTTTCGAGGNCATNCTAACTGGGNTCCACTTTTNNAATTTTGGGT

Sequence 5446

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGNCCGGGCNGGNACCCCGGGNAACNT
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TCCNATACAACGGGGCAAAGCTATCCAGGTTCCGGCTAACACATTTTCTAAGTCGCCAGT
GCTGCTTACAGTTTGAATACATGAAAATCCTGTTTCTGAGATGTTTGCGCACGTGCTTAT
TAGGAAATGAGTCTGTATGGAAATCTCACCACAGATAATGGTTAACGAACCGGGTCGACA
TCACAAAGGAGGGTGGAGACTCTTTTTACTAACTTGAATGAGACAAAAGCAGTGGGTGTC
AGTTTTATAATCCTGATGCATTTCAGGTAATTAATGTAGAAAAAACCATTATTTTAAAAA

Sequence 5447

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TTCCAATGAGAATGACACAAATACCAAGGACTGGAGAAGCCCTTGGAACAATTGATAAAG
CTTCCCACATTTTTTTTTTTTTGAGATGGAGTCTCACTCTGTCACCCAGGCTGAATGCAA
TCGCATGATCTCGGCTCACTGCAACCTCTGCCTCCTGGAATCAAGGAATTCTCCTGCCTC
AGCCTCCTGAGTAGCTGGGATTACAGGCTCCCACCACACCTGGCTAATTTAGTATTTTTA
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CCACCTGCTTCCGCCTNCCAAAGTGCTGGGATTNCAGGCATGACCACTGCCCTGGTCAAT
TTCCCACATTTTTCTTAAGATTATGTTTGGCCTACAAAAN

Sequence 5448

GAATNGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTGATTCCAATTGATGGGA
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Table 1

GGAGTGCAGTGGCCCAATCTCAGCTCACTGCAACCTCCGCCTCCTGGGTTCAGGCAATTC
TCCTGCCTGAGCCCCCCAAGTAGCTGGGATTACAGGCGCCGTGACACCACACCCGGCTAA
TTTTTTTGTATTTTTAGNTAAGATGGGGTTTCGCCATGTTTGCCANGCTGGTCTCNAACT
CCTGACCCNAANNAACCCACCCGNCTTGGNCTTCCAAAGGGCTGGGGATTCNNGACCTNA
GCCATGGGGCCCGGCCAATGAAGCAACTTTTTTAAGAAATTNGCCCTGNANATNGGGNCN
GCCCNGGNTCCNCCCNNAATTGNAANGGGGTTACCCCCGGAANNCCATTTTNTNCCCCTT
TGNTCTTGTNNGGANCNTTANAAAAAAAAAA
Sequence 5449
CCGGGCAGGTACCATGTTATTTTAGATGAAAGCCATTACAAAGAGTTGCTCACACATCAT
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CAGCACACCATTGCTTCTTTATCTGACCAGGATGCAAAACCCTCTTTCAGCATGGCGCAT
TTGGATGGCAATACTGAGCCAGGGCTTACATTAGGGGGCTATTTCTGCCCACAGTGTCGG
GCAAAGTACGCGGGAATGTTCAAGCTTTAGAAAGATCAGAGCAATTTTTCTCTTTCAGTC
CAAACTAAGACTCTCTGTATTTAAATCTCTCTGGGGCAAGAGGGCTAGATTTCCT
Sequence 5450
TCACTATAGTTTTGAATNGGAACNCCACCGCGGTGGCGGCCGCCCGGGCAGGACGCTTTT
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T
Sequence 5451
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CACTGACACACAGGGGACACCCACTCCTGCCACCTTGGGAAGCGGTTGCCAGACAGAGCC
CCACTGGGTGCTGGTGTCATCCANGGACCCCACACACTTCCTTAAATGTGATCCTGCTTC
CTCTGCACAAGCTGCATNCTCTCTTCTGCAGGACTGTCTGGAAACTTGGCTNTCAATTTG
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TTCATGGGGGTATTTTTGAAAATACTTGGCGGGCTNCATGCTTNTGTTTTNTTTGNCCNG
GTGGTCANGAGGGCTTACNAAAAAATGCCTG
Sequence 5452
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ATCCTTGGACCCACTTTTGTTAACTCTTAAACTTTGTGTCTTTGTCTTTATTTCTTTTCT
CATTCCCTCGTCTCCACCGGGAAGGGGAGAGCCTGCGGTGNGTATCAGGCAGGGTCCCCT
ACATCTTTGGCACCCAACACGGTCTCCTTGAACCCAGGTGAAGTTACACCTGAGCCGTGG
TCGTTGTGAAGAACGGTCTGTCCAGGAACTCCCGAGAACGTGTGGTCGGCCTTGCGGTAA
AGCTTGTGCACTCGGAGCATTCAGGGACACCATGGGACAATCCAAAAGTAAACATTCTGC
ATATTTACATTTTATTAAGCTCCTCTTAAAGAGGGCAGGAATTAAGGCTAGCACAAAAAA
TTTGATTACTCTGTTTCCAACAGTAGAGCAATATCGNCCTTGGTTTCTGAACATGGTACC
T
Sequence 5453
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GGCCGCCCGGGCAGGAACGNTTTTGANGGGGCTGAANAGCCNAAAACCAATNNACCCANC
AGGNCCAGCCTNCNCTCAAGGAGAGGCAAAGAAAAGGAGANACAGCG
Sequence 5454
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GCTCACTGCAATCTNTGCCGCCCGGGTTCAAGCGATTCTCCTGCTAGCCTCCCCANAGTT
GGGATTACAGGNGTGTGCCACAACGCCTGGCTAATTTTTGTATTTTTAAGTAGACACGAG
GTTTCAGCATCTTGGCCAGGCTGGCTTGAATCCTGACCTCGGGATCCACCCATCTCGGCC
TCCAAAGGCAGAACCAGATTCTTAACTGCCACAGACTCTTGNATTATGTAATTTATATAC
AGAACACAAAGGCACTTGATTTGCTTAACTGATGTACCT
Sequence 5455

Table 1

AGGTACTGTTTGTCCTGCATCCCGGCAGTGGCGGTGTGCCAAACAGTTTGAAAACCCAAT
CATTAAGTCTTGTCCAGAATGCCGTGTGATATCAGAGTTTGTAATTCCAAGTGTGTATTG
GGTGGAAGATCAGAATAAAAAGACGAGTTGATTGAAGCTTTCAAACAGGGGATGGGGAAA
AAAGCCTGTAAATACTTTGAGCAAGGCAAGGGGACCTGCCCATTTGGAACAAATGTCTTT
ATCGCATGCT

Sequence 5456

AGGTACGCGGGGGCCTGAGCCAAGGCCACGTGATGATGACAGACGGCACTCTGGCTTTCC
TGGAGCTGTCTCTATGGTATTCTTCCCAGCCCACCCGTCCCTTTGGTAGCGGCAGTCACG
TGACAGACTCCGGGGTGGGTGCTACCAAATACAGCCATGAAGAAAAAGGTGCTGTTGATG
GGTAAAAGTGGGTCTGGTAAGACCAGCATGAGGTCTATTATCTTTGCAAATTATATTGCC
AGAGACACACGTCGCCTTGGCGCAACAATTGATGTAGAACATTCTCATGTTCGATTTCTG
GGAAACCTGGTATTGAACCTGTGGGATTGTGGTGGGCAAGACACCTTCATGGAAAA

Sequence 5457

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATAGTGGCCGTGG
CAGCCTCCGTGTCTGTCTTCCATGTCACTCCACTTTATAGCTCTGAGGTTTCCAGTCCAG
GATGCATTTGGCATAGAGCCAGGAACACCGGGAATCCTGTTGAGTGTCACCCAGAAATGT
TCGTCGGGGCTTGTAGGTGTCCTTGGACCAGGAGAGTAAGTCAAGTGCGAGCTGGTCTTG
GAGGACGAAGTTAGCAAAGTCCCTTGTGAGAGCCACGTAGGCCGTGCCAAAGTAAATCAC
CATGTCATGAGGAGGAGGAGTTTTTAATTTTTGTTGTTTTAATCACCGTAGGAATTTTTG
TGGTTTAACAGTTCTTGGTGGACGTATTTAGTCCGTCCAACAGCCGTGGTCAGGGAGGCA
AGCACTCCGGGGGTGATATTTTTCCCTTTAAA

Sequence 5458

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CTTTCCCTCCCCCTTCTTTCGATCAGAGATCGGCGGAGACCCTCGAAGTGCGCAAACTTG
ACACTCACCCTGACCGGACTGGGGTTTTAAGGGGTGTGGC

Sequence 5459

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGTGAGCAGTGAGAGAGCTGACGGGC
AGAGCATGACTGCATGACAGCAAAGGGCAGACCAAACTCCTGCAGCTGCTGACCACCAAA
TCTTGATCAGATGGAGCCCTCGCCCTTAGCCAGCTCTTTGTCNGATACAAAACAAANACT
CCACAGGGTAGCTGCCTTGGGTTNTGGGTCTTACACATGGAACCTNNNTCAAGGGAGAAA
GCATAAAATTTTTGCACAGACTTCTTTGCAAGGACAGCAGTTCCCCTGTGGGACTTGGCC
AAGTTTAACAAGCAGGAAGCCACANGCAAAAGAACT

Sequence 5460

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTGTT
AGNGGAATGGTAATTTTCTGATGATATCTGTGTTCAGAAGGGACTGAAATTTATACATTT
ACCTCTTTGAACTCAGAAAGNATCANAGGACTGCAACATAAAACCGCCCCATACAAGAGG
GCCCCNGCCTCGAAGACAAGGGGTNTTGCCCCACGCTTCGCCTNCCTTCCANCTTTTGCC
GGGAACGCCGTCCCACTCAGGGGTTCAATGCAGGAAACACCCTCCTAAGGGAAAACGGGA
CGCCACTCCCTACCCAGGAGACGCCCCCACAGGGCTGGAGCTTNTATTCGAAGCCCATTT
CTAAGGACACCACACGCAGGCCTCAAGCCAACCTAAGAGGCAGGATGATGCCCTCCGTCC
TGA

Sequence 5461

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCACGGTACCGCGGGATTTAAA
GACCTGACAGCTTGAGAAGGTCACTACTGCATTTATAGGACCTTCTGGTGGTTCTGCTGT
TACNGTTTGAAGTCTGACAATCCTTGAGAATCTTTGCATGCAGAGGAGGTAAGAGGTATT

Sequence 5462

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAGAAAAATTCCTCTGTCT
TGAGATACTGTTAATCTGTAACCCTAGCCCCAACCCTGTGCTCAGAAGCGTGTGCTGTGT
TGGCTCAAGGTTTAATGGATTTAGGGCTGTGCAGGACGTGCTTTGATAAAATGTGTTTGT
AGGCANTAATGCTTGGGTAAAAANNTAATNACCATTTTCCAGTCTTCAAAGTTCTNCGGG
GGGCCTTTGCAATGCCATGTTTGGTGCATGTGCTCTAACTCCCGGAGAGCA

Sequence 5463

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGCCCTTGCTCACT
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ATTCATCCCCCTTCGTTCACTCCCATAACAACCAACAGCGACAACTGGCACCTAGGACAG
GGACGTGAGTGAAGGTCTGNTGGAGCANAGAAACTGACACTGACAAGAAGAACGAGAATG
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Table 1

CAAACGGNAATTGAGAGCTGCACAACCTGCAATTACCTTTATTCAATTAATGCAAAAACA
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GAAGGCTATATGAGCAAACAGAAAACTGTTNTNATGAAAGCAGGATGTTGGAAA
Sequence 5464
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ACAACCACATTTTTCTTTGTGTGTGCTTCTAGCANGCTGTTCGGGAGGACCTTGACCCA
Sequence 5465
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AAGAGTAAGTAGCCTCCAACTTAAGCAGACAGAATAATTTTCTTTAAAATGAAAAGAACA
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Sequence 5466
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CCGAGTTTGTGACTCCNAGATGGACAAAGTGTGTGCTGTTTTTGGAGGCTTCCCGAGGCA
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ATTGCCAAGAAACCTGNA
Sequence 5467
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGCAATATCCTGCC
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NCTTCAGAAAAAAAGCATCCCCGAGGAGGGAAGACGAATCTGTTAAAACATCTTTANGTC
AGCTCTAGCCTCTCGGAATTTGTCTTNTTCAGTGGAAACCCCGAGAAGACTGATCAGTTT
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ACTTTTCTCAGGAGGAGT
Sequence 5468
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GGAGAGCCATAGAGCACGTGCTGCAGGTAGAGGCCTCCCAGGAGCCCTCGNCACGTGTTC
AAGCCTGAAGCAGCTGCTGCAGAGGTTACTGAAGAGCAATAGCCACTTGAGTGAGGAGTG
CGGGGAGCTTCTCCTGCAAAGAGGAACCACGAAGGTGGCCACAGGTCTGGTTCCGAACAG
AGACCAGAGGCTCGCCTGGGCAGAGAACAGCATTGACTTCATCA
Sequence 5469
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GGTGCTGGTGCTGCTGAACGAGATGAGCCGCACAGGCGAGGGCGCCGTCAGCCTCATGGA
GCGGCGGAGGCTCAACCAGCTGCTCCTGCCCCTGCTGCAGGGCCCAGATATTACACTGTC
AAAACTTTACAAGTTAATTGAAGAGTCTTGTCCACAGCTGGCAAATTCAGTGCAGATCAG
AATCAAACTGATGGCTGAAGGCGAGTTGAAGGATATGGAACAGTTTTTTGATGACCTTTC
AGATTCTTTCTCTGGAACTGAA
Sequence 5470
CCGCGGTGGCGGCCGAGGTACACAGTGAAAGGGCCCTGACAAGAGGATGGGACTGCAGTT
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AGTGCAACCTCCGCCTCCTGAGTTCAAGTGATTCTCCTGCCTCAGCCTCCCTAGTAGCTG
GGGATTACAGGACAAGGAGAGGGACAAATTCCTTCTTGGCATCCTTATGGCCCTGTGACC
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Table 1

Sequence 5471
GACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAAAATT
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TTTCATTACTTCAGTGATTAGGGTGAGGCACAAAGAGTTTCTTGATCATCCAGAGAACAT
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GCCAGATCTGCTGCCATGATGCCTATTTGGTGTGTTTCTGATTAAAATGAAATCACAAGC
TGCCTTGTTTAGCCTGCTTTACATTGTAGGTGGCCCGCATTTCCAGAAATAACGTTATGC
ATCTAGATGGAAGCTGCATGTAACAAATCATTATTATCTATTTTTAAAAGCTTCAAAATG
ATGGGATATGATCATAGATTTTAGTCTTACTAATCTG
Sequence 5472
CCGCGGTGGCGGCCGAGGTACACGTCCCAGAAAGAAATACGCTATAACACCCACCAGCCT
GAGGGCTGCATTGCTGTGGAAGCAGGAATGGATACCCTTATCATGCATCTCTGCGAAGAA
ACTGCCCCAGAGAATCAGAAGTTCATCTTGCAGGAGGATGGATCTTTATTTCACGAACAG
TCCAAGAAATGTGTCCAGGCTGCGAGGAAGGAGTCGAGTGACAGTTTCGTTCCACTCTTA
CGAGACTGCACCAACTCGGATCATCAGAAATGGTTCTTCAAAGAGCGCATGTTATGAAGC
CTCGTGTATCAAGGAGCCCATCGAAGGAGACTGTGGAGCCAGGACTCTGCCCAACAAAGA
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TCATTTTGCCATTTGTGAA
Sequence 5473
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CCTCCTCCTTTTTTTTTTTTTTTGGGACAGAGTCTCACTCTGTTGCCCAGGCTGGAGTTG
CAGTGGCGTGATCTTGGCTCACTGCAAGCTCTGCCTCCCGGGNTCACGCCATTCTCCTGC
CTCAGCCTNCTGAGTAGCTGGGACTACAGGCACCCGCCACCACGCCCAGCT
Sequence 5474
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AAAAAACCACAGAATGAAATCCCCCAAGATGGCAGCTGCTCATTGTCAAGATTATTTACC
CGCGTACCTTCAGTCCTGGCCAAGCTTTGAGGCTCTGTCACTGAGCAATGGTAACTGCAC
CTGGGCAGCTCCTCCCTGTGCCCCCAGCCTCAGCCCAACTTCTTACCCGAAAGCATCACT
GCCTTGGCCCCTCCCTCCCGGCTGCCCCCATCACCTCTACTGTCTCCTCCCTGGGCTAAG
CAGGGGGAGAAGCGGGCTGGGGGGTAGCCGGGATGTNAGCCAAGTCCACTGTCCTTCTTN
GCGGGCAAAAGCCCCAT
Sequence 5475
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AGAAAGGTCCTGGT
Sequence 5476
AGGTACGCGGGGTCAGCCGCCGCGCCGCCGGGCTGCTCCTTCTTCCTCCTCGGGCGCCCG
CGGCGATGTTCAACCGCGCCGNGAGCCGGCTGANCAGGAA
Sequence 5477
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CCTGGTTAACACGGTGAAACCCCGACTCTACTAAAACTACAAAAAAATTAGCTGGGCGTG
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CAGGAGGCGGAGCTTGCAGTGAGCCGAGATCACACCACTGCACTCCATCCAGCCTGGGTG
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GCATAGTTGGNAGAAGCTGTCAATCTTGGTTATACCTTTTCAGGGGANAACCAAGACCAG
AATTAACTTTGGAAG
Sequence 5478
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TGCAAGGCGGCGGCAGGAGAGGTTGTGGTGCTAGTTTCTCTAAGCCATCCAGTGCCATCC
TCGTCGCTGCAGCGA
Sequence 5479
TATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGTGCGTTTGTGGCCGTCCGGCCTCC

Table 1

CTGACATGCAGCCCTCTGGACCCCGAGGTTGGACCCTACTGTGACACAC
Sequence 5480
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GGAGCGTTTTGTTATTTTTACAAGGCAGAATGGGGTGTAACAGTTGAATTAAACTTAGCA
ATCAC
Sequence 5481
TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACAATGAAGGATCTGG
CCACGGAGCACTGCATAGTTCCAAAGGGGCACGTGGGCATTCCTCCTATGGGCATTCAGC
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CCATACAGATAGGAGTGGTTGTTCCATGATGTCTTGTCCAGGAGAAACACATACCAGTAT
GGCAGCAGGAATAACACACAGCTTATCCGGTAGCACAGGCCCAGCATCATGCCCAGTGCC
CCTGGGATTTGTAGGGAGAGGATTAAAGAGGTCAAGAGATCACCACAGGCCCAGTTTCCA
TCCAGTCAAGTGGCAGTGGGCGTAGGGCATCCAGCAAGGGGGAAGCGGCACCCGCGTACC
TG
Sequence 5482
TTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGAAACATGGCACCAGCATCT
GCTTCTTCCCCGGCTGCTTCCACTCATGGTGGAAGGTGAAGGGGAGCCGGATGTGCATAG
ATCATATGGCAAGAGAG
Sequence 5483
GCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGGTACAACTGATGGTTCCCCCA
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AGTTCCGATATGTGAACCGCCAGGGCCAGGTGTGTGGGCAGAGCCCCCCTTTCCAGTTCC
GAGAGCCAAGGCCCATGGATGAACAGGTGACCCTGGAGGAGGCTGATGGGGGCTCTGACA
TNCTGCTGGTTGTCCCCAAGGCAACTGTGTTACAGAACCAGCTTCGATGAGAGCCAGCAA
GAACGGAATGGCCTGATGCAGCTTGAAGCTACAGCTGGAGGGACAGGTGACAGAGCTGAG
GAGCCNAGTGCAGGATCTCGAGAGGGCTCTGGCAANNTGNCANGCAGGAGCACACGGAGC
TTGATGGA
Sequence 5484
TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGGGGGAGTTACCAGCTTTGG
CTGCTCGCGCCTCCCCAACTCGGGTAAAGCTCCTCGGCCTCGGCGTGCTGCGCCTCCGCG
GCTGCCCTGCGCCAGAATTCGGTTCCCTCAAAATTATAAAAGCAGGAAAGCTCAAGACAA
AGAAATCCAACAAGGCTAGTGATTTCAGTGATATGGAGAATTGGCCAACACCAAGTGAAT
TAGTGAACACTGGATTTCAGAGCGTCCTCAGCCAAGGAAATAAAAAGCCACAAAATAGAA
AAGAAAAAGAAGAGAAGGTTGAAAAGAGAAGTAACAGTGACAGCAAAGAAAACCGGGAAA
CAAAATTAAATGGTCCTGGTGAAAACGTCAGTGAGGATGAGGCTCAGNCAAGTAATCAAC
GTAAGAGAG
Sequence 5485
CCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGTGAGGGGACCCCTGCCTGTTTCCCC
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AGGAGCCCAAGCCAGGGGNCAGCTCCNANAAAGGGTAACCTATCACGCTTCTCTCTTTCC
ANAATTGGAAATGAANACAGGGTTTTCAAANGCACANGCTCCCCCTANCANCTTATAGGA
TNTTCCTTGGTG
Sequence 5486
CCGCGGTGGCGGCCGNCCGGCCATGGTNCGCNGGGTTNAATCCTGAANACACACGCNANG
TATTTNAGGGNNAGGCACANCTTNNCACACCCGNTCTGCGATATGATGCCTCCTGAAGAA
TCGATTNCTCAGGCCATGGTGATGACTTNCAGCCACGACCTCATGCTGCTNCGCCTGTCA
GAGCCTGCCGAGCTNACGAGATGCTGTGAANGTCATGGACCTNCCCACCCAGGATCCANN
NCTGGGGACCACCTGCTACGCCTNATGCTGGGGCAGCATTGAACCAGANGAGTTCTTGAC
CCCAAANAAACTTCANTGNGTGGACCTCCATGTTATTTNCAATGACNTGTGTGCGCANGT
TCACCCTCATAANGTGACCAAGTTCATGCTNNGTGCTGGACGCTGGACAGGGGGCAAAAG
Sequence 5487
CCTAATACGACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCAGG
TACCGGGGCAGACAGCCCGGCGAACCGCGCAATGCGCTTCTTCTGCCTGCAGCAGAGAAA
AGGAAAGAAAACTCCGCAGGGGCTCCGTTGGCTTCTCCACGAGTGACGACCATGTTTTCC
CAGATAGAAGACCGGAGCCCTGCTCCTTTGCGATCCGCCGAGGGCTGCAGAGAGCATCCT
CATCCATTTGGGCACCCCTGCCCAGGAAGAGCCCGGCCATCCCTTTCCGGACTGGATCCT
TAAGAGGTGAATTTTCTTCCGTGGATTCCGATTTGCTCCGTCTGACCAGCCTAGGCAATC

Table 1

CAGCATCGCGTGGTACCT
Sequence 5488
CCGCGGTGGCGGCCGCCCGGGCAGGTACAAATACAGCTTCAAGGGGCCGCACCTGGTGCA
GAGCGACGGGACCGTGCCCTTCTGGGCCCACGCGGGGAGTAAACATATGGTGAATCCAAG
AGAATAAGAGAATTATTTGCTCAAAGTCACACAGCTGAACTGAGACTAGGAACAAGTCTT
TTGATTNCTAGTGATTGCTTATTCCAAGTTCAGATCANATTTNNAGTAGCACCATCTTTA
AAAAGCCAAAGAGGCTCAG
Sequence 5489
CCGCGGTGGCGGCCGAGGTACGCGGGGCAGTCACCGTGGGTGGTGTGGCAGCTGGAATTG
GGGGCCTCGAGCTGGCTGCCATGATTGTGTCCATGTATCTGTACAAACGAGTCCTGGCCT
TGTCTGTGGAGACGGATTACACCTTCCCACTTGCTGAAAAGGTCAAGGCCTTCTTGGCTG
ATCCATCTGCCTTTGTGGCTGCTGCCCCTGTGGCTGCTGCCACCACAGCTGCTCCTGCTG
CTGCTGCAGCCCCAGCTAAGGTTGAAGCCAAGGAAGAGTCGGAGGAGTCGGACGAGGATA
TGGGATTTGGTCTCTTTGACTAATCACCAAAAAGCAACCAACTTAGCCAGTTTTATTTGC
AAAACAAGGAAATAAAGGCTTACTTCTTCAAAAAAAAAAAAAAAAAAAAAAAGGTNCCT
GC
Sequence 5490
CCGCGGTGGCGGCCGAGGTACAAAAGTTAAGCTCCATTTACCACTCACTTGACAGTGTCC
TTTAAATCTGAACTTGCTCTTGCTCATGCGGAGCTTGGCTAAGAGAAACCAGATCAGAAT
GCAAGCTGTAGGTGGG
Sequence 5491
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAGAAT
GTAGAGGAACCTTGGCGGTCAACATTCCACCACCCCCGACTGACCGAGTATGGTATGGTT
TCCGAAAGCCACCACATGTGGAGCTGAAAGGCTCGGCCAAAACTTGGAGAAGAGAGAAGT
GACTTTAGTTCATTGTGACAGACTGGATAGAGAAAGAAACTGGAGCAAGAAGTTTCAGCT
GTTCTTTAATATCTTCCTACAGAAAGTTTTTTG
Sequence 5492
CTACTTAGGGCAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCATGGTACGCGGGGGG
CGCGGAGCAGCGACGGCTGCGATAATAGCGAGGCAGCAGTGCAGCTTTCAGAGGGTCCGG
GCTCAGAGGGGCTATGATTCGGAGGGTTCTGCCGNACGGNATGGGCCGGGGCCTCTTTGA
CCCGAAGGCCANNCACGCACAGAAGGAGGCTTTTCTCTTGGACTGGGGATGGAAAGGGTG
TCTGNGATTAANAAAGAAGATCAAGTCGATCCTGCCTGG
Sequence 5493
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCTTTTTTTTTTT
TTTTTTTTTTTTTTTTNCCNTCTCCCCAAAGCTTTATCTGTCTTGACTTTTTAAAAAAGT
TTGGGGGCANATTCTGAATTGGCTAAAANACATGCATTTTTAAAACTAGCAACTCTTATT
TCTTTCCTTTAAAAATACATAGCNTTAAATCCCAAATCCTATTTAAAGACCTGACAGCTT
GANAAGGTCACTACTGCATTTATAGGACCTTCTGGNGGTTCTGCTGTTACNTTTGAAGTC
TGACAATCCTTGAAAATCTTTGCATGCAAAGGAGGTAAGAGGTNTTGGATTTTCNCAGAA
GGAANAACACANCCCAAAATGAAGGGCCAGNGCNTTACTGANCTGTCCCAGNGNGANGGG
CNCATGGGTGGGGACATNGGAAA
Sequence 5494
ATCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGCACTGGACA
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AGGCAGGCTTGGCATGGTTGGCCGGGGCGGGACGTACTTCGGAAATTTCAATTCCTGCTG
ATCTTGATAAAACTTTTACCAGAACTAGCCGACTGGCTGGGTATTAATCGACCAGATGCT
GAAGTCCAACATTGTCACTGTTGGGGATGTAGAAGAGATCAATAAGACCGTTTCCCGAAT
GAAAATTACAAAGGCTGACTTAGAACAGCGCCATCCTCAGCTGGATTATGTTTTTACATT
GGCACAGAATTTGAAAAATAAAGCTTCCAGTTCAGATATGAGAACAGCAATTACAGAAAA
ATTGGAAAGGGTCAAGAACCAGTGGGGATGG
Sequence 5495
ACTNCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTCCAGCC
AGGGCAAGAGAGCGAGACCCTGTCTCAATAAATAAATAAATAAATAAATAAATAAATAAA
TAAATAAATAAAAAAAAACAAAGTTGATTAAGAAAGGAAGTATAGGCCAGGCACAGTGGC
TCACACCTGTAATTCCTTGCATTTTTGGAAGGGCTTGAGGCAGGAGGATCACTTTAGGCC
TGGTGGTGTTCAAGACCAGCCTGGTCAACATAGTGAGACACTGTCTCTACCAAAAAAAGG
AAGGAAGGGACACATATCAAACTGAAACAAAATTAGAAATGTAATTATGTTCTAAGTGCC

Table 1

TCCAAGTTCAAAACTTATTGGGAATGTTGAGAGGTGTGGGTTACGAAATACGTTAGGGAG
GACAAAAGGGAAGGGGGTAAAGTCTTTAATGCCGATATCTTCAAGAAAACCTAAGCAAA
Sequence 5496
CCGCGGTGGCGGCCCGCCCGGGCAGGTACAGTCCCATTGTAAGTGTTGTTTCTAATTATA
GATGTAAAATGAAATTTCATTTGTAATTGGAAAAAATCCAATAAAAAGGATATTCATTTA
GAAAATAGCTAAGATCTTTAATAAAAATTTGATATGAAAAGCACAATGGTGCNANAAGTT
ATGGAAAACCTATAGAGGATTACAACAGGTAAACGTTAAAGAGAATACATTGCTGACTTA
TAGTGATGTGGCTAAGAAGTACGCCTTGCAAGAGGAGTCTGCAGAAGGAGAGCCCACCTT
TCACCTCCAGTTTGCATTCAATCTCCACTGTCCCAAGGTCATTGACTGCTTTGCAGCAGT
AAGTGCCTCCATCATAGGGGGCTGGGCTTGCGAATTTCCAGGGTACCTT
Sequence 5497
CCGGGCAGGTACTGATGTAAGGGGCGTCGCACCTCCTTCCCCTCTCGTCCTCCGAGGTCA
GTTTAGCAACAGCGGCTGGGAAAGGTGCTGAGAGCAGAGTTCGGTCTCTCCGGAAACCCT
GACTCCATTCTCGGTGATGGGGGTGGGGGAAAGAAGGGTGAAANTTGTNNGGAGACGNCA
NGGTNGGTTTCTNAAAAATAACTCNNAANAGTAAANAANNAAGGGGTANNCTNGGNCGTT
TCTAANAACTANTGGATCCCCCGGNCTGCCANGGAATTNCNATATCAAGCTTATCCATAC
CCG
Sequence 5498
CTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCCCGGGCATGGTACGCGGGGG
GCCGATCGCACGCCCCCCGTGGCGGCGACGACCCATTCGAACGTCTGCCCTATCAACTTT
CGATGGTAGTCGCCGTGCCTACCATGGTGACCACGGGTGACGGGGAATCAGGGTTCGATT
CCGGAGAGGGAAGCCTTGANAAAACGGCTACCACATCCAAGGAAAGGAAGCAGCCCNCCC
AANTTNCCNATTCCCGACCCGGGGAGGGTAGTTGACCGAANAAAAAAAAAAAAAAAAAN
AAAAGGAGTNCCTCGGCCGNTTCTAGAACTAGTGGGATCCCCCGGGCTGCAGGAAATTCG
ATTTTCAAACTTATTCGATACCCGTCGACCTCNGAGGGGGGGCCC
Sequence 5499
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTCAGGCCCTGTAGG
ATCTCAGGGGCGATATAGTCAGGGGTGCCGCAGAAGGTGCTGGCCCGGCTCTCCCCGAAT
ATGTTCTCTTTGCACATCCCAAAGTCGGCAATCTTGATGTGGCCATCCCGGTCCAACAGC
ACATTGTCCANNTTGAAGGTCCCTGTAAATGATGCCCTTGCTGTNGTAGAAACTGCAGTC
CACACATTATCTCAGCGGCATAAAACGTGGCACGGTAGAGTTCAAAGCGGCCTTTGTCCT
NGGATGTGGTACGCGGGGTATTATATCTGGGAAATTTGCTAAGACTAAAAGATTTTTCGG
TACCTGCCCNGGCGGCCGNTCTAGAACTAGNTGGATCCCCCGGGCTGCNGGAAATTCCCA
TATCCAAAGCTT
Sequence 5500
CCGCGGTGGCGGCCGCCCGGGCAGGTACCTCTGGGTCATATTGCAGAACCCTGCCCTTCT
TTGTTGACTGAGGAAAGCTCGCTCCCTGCCCAGGTTTTTCATTGTTGATCGAAATTAACA
CCAGGTGGTGAATAGAGCCCCTCCTAAGGTTGCTCAGGATAAATCATTTATTTAAATAGG
TCTGCTTATCANGAGGGGCCGTGAAGGCTCCCAAAAGGAAATGCTGGCACCTGGGCCCAG
AAGCCAGGGCCTCTAACTCCTGGGGTTGATTTCTTCAGTGAAGTTGCACCCTACAAAGGG
AAT
Sequence 5501
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTGTTTTT
TTTTTTTTCGAAAGCAAATAAATTTAATCTTTCATTTTCAATTAATCTTTAATATTTCAG
AAGTATATCAACATTGCCTAACATGCTATTTTACACACAATAGATATATAATCAATGTTT
ATTGACTTAAAAATCTTTNGGTTAAGCCAGATAAATTTTGTAATATTTTATGAACTAGTT
AACCCTGAGTCATGAATTTACCTTTTTTTTTTTTTTTCTGGAGACGGAGTCTTGTTCTGT
CGCCCAGGCTGGAGTGCAATGGCGCAATCTCGGCTCACTGCAACCTCCATTTCCCAGGCT
CAAGNGATTCTCCTGCCTNAGCCTCCCGAGTAGCTAGGATTACAGGTGCCTGCCCACCAT
GCCCAGCTAATTTTTTGGATTTTTAAGNANAGATGGGGGGGTTTAC
Sequence 5502
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCATGGTACGCGGGGAGAGC
AATCATGGGAGACGGCTCCCCGGCCAGACTTGGCTGATGTTTTCTTGTTTCTGTTTCAGC
CTTCAGGATAATTCCTTCAGCAGCACCACTGTAACAGAGTGTGACGAAGATCCAGTCTCT
CTACNTGAAGACCANACTGATTGCTCCAGTCTCNGAGATGGNNACCTTTNNNGAGAACTA
CCNCGACACAAGGGCTCTNGTTTNAATTANNCACGCGCCGCCCTCTTGGGAGCCCGCAGT
AGCAGAATGTAGAGGCGACCGTGCTGGTGGACAGCGTATTGCGACCCAGCATGGGCAACT

Table 1

TC
Sequence 5503
CCGCGGTGGCGGCCGAGGTACACGACCCCTAGGCGTCCTGACAGGTGGATTTCGACAAGG
TCATTGTGCCCTGCCAAGGCACAGCGTAGATCTGGAAAGAGCAGAATGCTTTCCTTTTCA
GATGTGGCTGGTCATGGAAGGGGCAGTTGTCCAAGTTGGGCTGGGTCTTGGTACTCAAAG
CTTTTTCAAGTTCCTCAAAAGCAGCTCTTTCGGACTTTTCTTTCTGTTCCCGTAATTCCT
CTCCCTGGGTAGTCATCTGTTTGATGCGACTACGGAGTTGAGCAATTTCTTCTTCTTTCA
TTTCCAGGGTTTCATGCATCTGACGTTTTGTCTCTGCGATTACCATTCCCTTATCTTGTT
CAAGCTGTTCAATTAAAGTTC
Sequence 5504
CCGGGCACGGTACCAGCCAGCAACACCAACCAAATGCTACTCTCTTTAAAGTCCATTTTC
CTTCTTCTTTTTTTTTTTTTTTGGAGACAGCATCTCACCATGTCCTGGCTGGTCTCGAACT
CCTGACCTCAGGTGATCCGCCGGCCTCACCCTCCCAAAGTGCTGGGATTACAGGCATGAC
CCACCATGCCAGACTTCCCATTTTACTTTCTGCAAGCTGTTTCCCTAGCAGCTCCCTCTA
GGGGAGAGGTGAAATCTTGCAAGTTGTAGCAAGAGCACACAGGAAACCCCTAACTTTCCT
ATACCCCACCCGCCTCTTCCCCTTTCTGTCCCGGGATACCTGGCGGCAAGAGACTTCTTG
GCTATTGTCCATGCTCCCAGAATCAAG
Sequence 5505
CCGCGGTGGCGGCCGAGGTACTGANTTCAAAAACTAGCTAACTTAGAAACTGCCACACAG
CAAANAAGAAAACCAAAGTGGTCCACAGGAACATTCTCCTTTCC
Sequence 5506
TTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAAAAAGGACCTTGAA
CTCTTAAATTGGACCAGCAAACTGCTGCAGCGCAACTCTCATGCAGATTTACATTTGACT
GTTGGAGCAATGAAAGTAAACGTGTATCTCTTGTTCATTTTTATAGAACTTTTGCATACT
ATATTGGATTTACCTGCGGTGTGACTAGCTTTAAATGTTTGTGTTTATACAGATAAGAAA
TGCTATTTCTTTCTGGTTCCTGCAGCCATTGAAAAACCTTTTTCCTTGCAAATTATAATG
TTTTTGATAGATTTTTATCAACTGTGGGAAACCAAACACAAAGCTGATAACCTTTCTTAA
AAACGACCCAGTCACAGTAAAGAAGACACAAGA
Sequence 5507
ATCGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCACTCGATT
GTCAACGTCAAGGAGTCGCAGGTCGCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGA
GTTGAAGATTAGTCCGCCGTANTCGGTGTACGCGGGGAATTTTATCTGGAAGAAATGATC
CTCCCTCTCATGGTAGCTAGTGCCCAGAGTGGGGAACGGNAATGTCATATAGTGGTGCTT
ACAGATGATGATGTGGTTGATTGGGATGAAGAATATCCACCACAGATGGGAGAAGAATAT
TCACAAATTATTTATAGCACAAAATTATATAGATTTTTCAAGTATATTGAAAACAGAGAT
GTGGCCAAGTCAGTTTTGAAGGACAGGGGTCTTAAGAAGATTAGATTGGGAATAGAAGGT
TATCCTACCTACAAAGAAAAAGTAAAGAAAAGGCCTG
Sequence 5508
CCGCGGTGGCGGCCGAGGTACTACACATTTAATTACTATAGCTTTGTAATAAGTTTTATT
TATTTATTTTTTTTTTTTTTGAGATGGAGTCTCGCTCTGTCGCCCAGGTTGGAGTGCAGTG
GTGCCATCTCAGCTCACTGCAACCTCTGCCTCCCAGATTTCAAACAATTNTNTTGCCAAG
GCCCCCCGAGTAGCTGGGGATTACAGGGTGCCCTGCCACCNTGCCCCAAGTTAANTTTTT
TTTTTNNTTTTTTTAAGNAGANACCGGGGGTTTNAACCNATTTTTTGGGCCNAGGCCTNG
NTTNTTAAAANTTCTTGNACCCTTAAAGGGGTGGAANTNTTNCCCNCAAANTTTTGGGCC
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NTNGGCCCTTGGTAAATTAAAAGTTNTTTAAAAAATTCAGGGGAAAAGCCNGNGGTNGGT
AATTTCCTTTTCCTAAAAACCAAAATTGGAAGGAAAAACCTTAAAAGGCCCACCAGGANG
GNCCTTAAAAGTT
Sequence 5509
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAAGCGNCCGTCCNCCGCNTAC
ANNCTGANAAATGCCNNTGGCCTGACAGCAGCANACATTGCACAAACCCAGGGTTTCCAA
GAGTGTGCCCAGTNNCTCTTGAACCTNCAGAATTGTCATCTGAACCATTTCTATAACAAT
GGCATNTTAAATGGGGGGTCATCANAATGTATNTTNCTAATCATATTAGTGTGGGAACAA
ATNNAAAGAGATGCTTGGAAGACTCAACAAGACTTTGGAGTANAAGAAAGCTANAACTGA
TAGGTGAGACCGCTTTGCCGGGTGGGAAGAAGCACCACTTATTTTTCCTTTCTTGTAATN
ATGGNCTTTCTTTTTT
Sequence 5510

Table 1

CCGCGGTGGCGGCCGANGTACTTNGTGNTCCGNATNNAANATGGAAATGGGCTGACGGGC
GTTTATTGGAATTGGCTTATTGGGACCGAGGTGATGCCTNTNACTTCAATGTTNCATTGC
AGGACCATTNCAAGNGTGNGAAACAGCACTGTGAATTTGCAAAANAATGCCCANAACCCA
NACCAAGGNCCTAAACTGGACCTGNGNTTCAAGGAGGGCCAGGACCATCAAGCTAAACAT
CAACANTGAAGTAACTAANGAAGGANCAGGCTGGGAATCCCCGAGATCCGGNCTGCCAGC
ACAGGANGGGCTTGAGCCTGCTTCCCCCTCCCCCAGGGGGGAAAACCTCCACCCTGATCC
C

Sequence 5511

GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACAGCTCAAAAGGCAGTTATTGAGG
AGTTTGTCCAGACACTTCTGGTGCTCTTGCTTTACTTCCTCTGAGGCCATGGAGTCTCCC
ACCTCAAAATCAGAGCTAATCCTCTTCTTGAGGAAGCGTAAGTATAGCTCACTGCGGGCA
TTCATCAGGGTGACCTCAGTCAGGATGGGGTCCAGTTCTCTTGGTTTCGATTTTTTCTGT
TGTAGAATTTTNTCATCAAGGTTGTTCTNGAACATTGCCCGGAACTGCTGGTGGTAAGTC
CCTTTTTGCTTTGATGAACTTGTCTTACCCACCTTCTTC

Sequence 5512

GGAGCTCCCCGCGGTGGCGGCCGCCCGGCCAGGTACGCGGGGGGCATTGAGGAAGCCTTC
ACCAGCAAGGCTGACCTGTCAGGGATCACAGGGGCCAGGAACCTAGCAGTCTCCCAGGTG
GTCCATAAGGCTGTGCTTGATGTATTTGAGGAGGGCACAGAAGCATCTGCTGCCACAGNA
GTCAAAAANTCACCCTCCTTTTCTGNATTTANTTGGAAGACAAGGGACCATTTGTGGCGT
TTTNAACAAGGCCCTTTCCTGATGATCATTGTCCCCTACAGACACCCCAGAAACAATTTT
TCTTTNATTGAGCCAAAGTCACCAATCCCAAGGNANGCCTAGAAGC

Sequence 5513

CCGCGGTGGCGGCCGAGGTACATGGGACTACAGGCACGCGCCTGTAATCCCAGCTACTCA
AGAGGCTGAGGCACGAGAATCACTTGAACCCAGGAGACGGAAGTTGCAGTGAGCTGAGAT
CACACCACTGCACTCCAGCCTGGTGACAGAGCAAGACTCCGGCTCTTAAAAAAAAAAANT
TTNTTAANTGTNCGGGAGAGAGANTAAACAGNAAAAGAATGTGGCTGGGGAATTGTGAAT
CAGAAGATTNTACCCCCCAATTTTTTTCAATCCCCTTTTCTCAAATAATAAATTAGTTAA
ATCAGTTTCTGAGTTATGCCACTGGCTGATGAAAAGTTGANAGGTCTNTTTGCAGAATGG
ATCTTTTTGTTTCGTTTTGTTTCTTCTTCTGCATTTAAAAATTAAAAGATTGGTTTTGAG
GATGTGATGAAAA

Sequence 5514

CCGCGGTGGCGGCCGCCCGGGCAGGTACACCAGCTTTCCCATCACCCCTGCAACCATAGG
AGTGGTCTTGGCTTCCTAGTTATGTTCCTATCAGGGTTGCCTCACTATCTTCTGGGCTTC
TCTGCTCTTTCGTCACCAGTGGAATTCTTTATATTAAATTTCCTCTGTTTTAAAGACTTC
GAGTGGGTTATATTTTCCTTGCTGGACCCGAGTTCAAATGAAAAGTCTGAGTTGTAAGGG
GAAAACATCTTTTTTATTATTATTATTTTTATTTTATTTATTTAAGAAGACAGGTTTCTT
GTTCTGTTGCCTTGGGCTAAGAGTGCAAGTGGTTGCAATCCTAATTCACTGTNGGCCCTC
AAATTCCTGGGCTCAAGTGGATCCTCCTGCCCCACCCTTGAGTAGATAGGACTACAGGCA
CACACCACCATA

Sequence 5515

CCGCGGTGGCGGCCGAGGTACCNNGTGNACNANGNTTACCAGAAAGCGNTTGNTACAANA
AAATAAGANCTCANGATGAGGGAAAANANAAAGATNGAGAGAATTTGTGCCCNCAACCAT
TTCCTCANACTCTAANAAAGAACACCCTCTCTACATGCAGGTCATGANGCTCAACTCTCT
TATTGCCTCACTTCATGTNTACCTGACTTTNCACAATATAATTATNACTGNAAAGAAGTT
TGGGGACACATGNTATTTGGAGATCACATTTTAAACACATTAGNAAAAGTTGCNCTTTNG
AACTTTTTNATTGATTTTTGGGGGGGAGGNNAAGAATTAATTTTTGCGATGCAACATAAA
TNNTCCNTTTGNATTTGGAGTCGACNTTTGCNCAAAATATNTAAGATTTATGGTGGTGGC
AATCAAGGGCGTATCCTTTNTTTTTTNCNTTTTTTTTTTAAGGAGGAAAGGTTTTCAAAT
TATTAAAGC

Sequence 5516

AGGTACCTCAAAGCCGGAAAGGTCAGCCCCCCGCTGCAAGTTCTTAGATTCCTGGAGGAT
CTGCAGAGTCAACATTAGGAGTATCCATCCATTCACCAAGGCCATCAGGAATGTGCTGAA
TGTGCTGTAAAGAAGAGTTGTCAATTGTGCACAGAAGATAAGAAATATATGATGAATAGA
TAATTGAAAAGAGATCCTCCAGAAAGAGCAGAAGGAAGTTTCTTCAATGTTCTGGCACTA
AGATATGGTGAACAGACAGATGGAGGCCACAACATTCAAGCTTTATTAAACTTGCCACAG
ATACCAGTAACAGCAATTCAAAGATGTGAATGGGATTAATTCAGGGCTGTTGC

Sequence 5517

Table 1

AGGTACACAAGTATATGAGTTTTGTTTAAAGCACTACTGAAGCCAAGATAAACTCTGGCT
TAGCATGCCCCTGACGGATCAGTCTAGTAATCTTATCAGAACCAAGATTACCTAAAACAT
TAACCAAAGGAAAAGCTCCCTCACCCCAACCTATGGCTGCCCACATTTTTCAGATTGAAT
CATTTCAATTGTATTTTAAGGTTCATTGACTCTTTTCCACCTCCAAGCTGCTCCTGAACA
CAGATTATTATTTTTTAATTTTGAAAACTTTCTCACTTCTAGAATTTCCACTTGAGCCTG
TTATTATTGTAGTTTCTTCTTCTCTGCTGTGATTTCCTATCCATTTATTTTAAGGG
Sequence 5518
CCGGGCAGGTACGCGGGGGCTGGTCGGTGGGCGCATGCGCAGCGCGCGCTCTACGGCGCT
GAACCGGGGCGAGCAGAGAGCTGTCAGATACTATAGCCATATGAAGTTGAACATGGCAGA
AGAAGAGGACTATATGTCTGATTCCTTCATTAATGTCCAAGAAGATATCAGACCAGGATT
GCCAATGCTAAGGCAAATCCGAGAAGCCCGTCGAAAAGAAGAAAAGCAACAGGAAGCCAA
TTTGAAAAACAGGCAGAAGAGTTTAAAAGAAAAAAAAAAAAAGTACCT
Sequence 5519
AANTNNGACTACCAGGATCCATGANCTTAAACAGGCCAAAATGAGCACAGTCATGGATAC
CGTAGGCCGGAGGCTTCGGGACTCCCTGGGCCGAACTGTGGACCTGGGGCTGACAGGCAA
CCATGGAGTTG
Sequence 5520
CACTACTTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGAGGTACGCGGGGAGGCGAA
GAACGCAAAGCTGAGAACATGGACGTTAATATCGCCCCACTCCGCGCCTGGGACGATTTC
TTCCCGGGTTCCGATCGCTTTGCC
Sequence 5521
GCGAGGTACTTTGGGAGGCCGAGACGGGCGGATCACGAGGTCAGGAGATCGAGACCATCC
TGGCTAACACGGTGAAACCCTGTCTCTACTAAAAAAAAATAAAAAATAAAAAATAAAAAC
ATTTCTGGGCATGGCGGCGGAGGCCTGCAGTCCCAGCTACTCGGGAGGCCTGANGGCAGG
ANAATCCGCTTGAATTCGGGAGGCGGAAGTTGCGGTGAGCCGAGATTGCGCCACTGCACT
CCAGCCTGGGCGGCAGAGCCAAGACTCTGTCTNAAAAAAAAAAAAAGAAAAGAAAAAAGAA
AAAGCCACTCCAGGCTCACTGCATCAGGATTTGCACTGCAACAGCATTGCCCAGGGCACA
GTCATGTTTTGAGAAATACGGAGGACCTCTGAAGTGCTTGATTCTGTGAACTCACACTGC
TGTAAGCAGACTTGTTTCTAGATAGGGGA
Sequence 5522
CCGCGGTGGCGGCCGCCCGGGCAGGTACGGGGGAGGGTAGAGTGAGAAGCACCAGCAGGC
AGTAACAGCCAACCCTTAGCCATTGCTAAGGGCAGAGAACTGGTGGAGCCTTTCTCTTAC
TCCCAGGACTTCAGCACCTAAGACAGCTCCAAAACAAACCAGAACAGTCAGCTCCGGGGA
AAGCACGACTGGGCGAGAGGCACAGAAATGGACACCAGAAATAAGGCCCAGCTCCTTGTG
CTCCTGACTCTTCTCAGTGTGCTCTTCTCACAGACTTCGGCATGGCCTCTTTACAGGGCA
CCTTCTGCTCTCAGGTTGGGTGACAGAATACCCTTTGAGGGAGCAAATGAACCTGATCAA
GTTTCATTAAAAGAAGACATTGACATGTTGCAAAATGCATTAGCTGAAAATGACACACCC
TATTATGATGTATCCAGAAA
Sequence 5523
CCGCGGTGGCGGCCGCCCGGGCAGGTACTTTAATAGTTAAGAGAAAATAANGTTTGCAGA
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GTGTGTTTTTTGATAACTTTAATATAAAATAAACTCATTTTATTTGTGCCAAAAAAAAAA
AAAAAAAAAAGGTACAGCAATGAGCAAATCCAACCTCAGATCTGAAGTGTCTTCCAGTCT
GGCCCTGACCCAGCCATTCTCTGCCCTTCCTTCTCCCTTTAGGGTAGCCCAAATCCCATT
GCCACACAACATCTCAACTTACCATCCCTTTCCTCTATCCCCATCCCCTCTGTCTGCGTC
ACAGAAAGTCTGTGTGTTCTGAANAGTTCAGCCTTCCTCTAACCAAACCTACACTTT
Sequence 5524
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACGGGGGTGAGCG
GAGGAGGGTGCTGCTTATGCGAGAGCAGGTTTTGGGAGCTCACTAAAGCAGGTCCCTGAT
TCTGGTCTTGAATAGCGGAGGAGGAAAAGAAGATGATGGGGGAAAAGAAAAGAAGCCATT
TATGCATCCCTCCCTAATTCAGTATCCGANCCATTGAGGGGAGTTGTCAAGCTAGTGGGG
GAAGAAGAGAGGGTTTAAGTTTTGAATGAAGTTGGGAGTTTTTATTATTGCACTGAACTA
AATAGGCATTTTATTAANAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGTNCCTGCCCGGGCG
GCCGCTCGAAGCTCGATGGTNTACAGGCATTCANAGCTCTTGGGGTAAGGGTTTGGGAAG
TCAGGGCTGGTGATCACCCCAGTCCTTTGAGTGA
Sequence 5525
AGGTACCGCGGGGGGANTCAAGGGNCCCCATTCNGTGGGCNAACCCCTTGANGCNCCCCT

Table 1

TNTCCAACTCCCTATTGTAGTAAACTTGGAAACCTTGGAAATGACCAGGCCAAGACTCAA
GCCTCCCCAGTTTCTACTGACCTTTGTCCTTANGTGTGAAGGTCCAGNGGTTTGCCTAGG
GAAAAAGAAAATCAAGCCAAGACCACAAGGTTGTTANTACCCAAGNAGTTGTTTTTCTTA
AAAAATTGGGTTGCTAAAATTTTNTGGTCCCTTCTTCTTGTGGTCCCCTGGGGGGAAATT
ANCTTGTGCCCAATGGCCCTTGGGANGACCATTATTCANCTTCCAAATTTTTTCCTTNTT
GGAGGGNAACCANCAATGGAATATGGGGNATNGGGGGGTNGGNTCCTGGTNGGTTTAATT
TTTNGG

Sequence 5526

ATACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT
TTTTTTTTTTTNGAAGCTGGGATATCTTACAGAGGAAGGAAAAATTAACCTTTTTTACTT
TCTTTCTCACTTTTTAAATCAGCCAAAGTCAANCCCGTTTGCCAACCTGCATGTCCATGC
CTGTAAGCCCTTCTTTTTGGCCAAGGAAGAAAGGAAGAAAGAAAAAAGAANCCCAGGGGC
CTGTATCCCCTGATTAAACACAGCACAGCACTCCAGGCANACATGCCCGGNGGNGGCTCC
TTTGCACCATTGACCTNAGGCCAAACACCTCAGCGCCAACAATGGGACCTCGGCCTTCCG
GCTAGGTTTGCCCCAGGCTGGGCAGGAAACCAGNT

Sequence 5527

ATATATAGGGCGAATTGGACTCCACCGCGGTGGCGGNCNNCNGGGCCAANCCTAAATGGC
TTGATNANNNCTGNGNNCACCTTANCCACTGGAAACAAAGCATAAAGTTACTGAGATGCN
TAATAGTGATTCTTTACCTGAAGATGCATTAATTGCATTGTGATTCAGCTGCAGTTTCAC
ATGAGCCAACACCANCTTAACCCCAGAAGGGGAGGGGGCATGAAAATGCAGCTTGTGCAG
GGATGCAGGGGGCTGCCCGCNCATTGGGCCCCCTGTGCAGCCTCAGGATGCCAACGCCCT
GGTAGCCCCCTCTCAATGGAAGACGTGACTTGAGGGATACACTTGCNTGAAATGGTATTT
GATTTCCCGTCAGGCCTTTGGANGGCAANAACCCCAANTATCCGAAAATACCCCCTGCGA
AGAAACCAAGAATTTATCTTGGGGCTTGTNGGGAAT

Sequence 5528

CTTTAGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGGTGGTGGCCNGGCCGGCCCCGGCC
TTANCCCCCGCGTACTTTTTTTTTTTTTTTTTTTTTTAATTCAAAGCCAGNTTTACTGCAA
AGTTTGCCTTNNGCCCTATACTTGGAGTTTTACAAGTTACGTCCCTACATTTGCATAATA
CAACGAATTTAGCTTAAATTTGGAAACAGGGTAAAGTTTTTGTTCCANAATTGTTTGCAA
GAGGAACACTGGGCGCAGCTTAATGATCTTTTCTT

Sequence 5529

CCGCGGTGGCGGCCGGGCCGAGAGGTGGTTACATTCGTTGAAGGACACCAGCTGCGGAAT
TTGCGGCTTTGGCAGATTGAAATCATGGCAGGTCCAGAAAGTGATGCGCAATACCAGTTC
ACTGGTATTAAAAAATATTTCAACTCTTATACCCTCACAGGTAGAATGAACTGTGTACGC
GGGTTTAAGAAGCGGACGGAGCTGTTCATTGCCGCCGAGGGCATTCACACGGGCCAGTTT
GTGTATTGCGGCAAGAAGGCCCAGCTCAACATTGGCAATGTGCTCCCTGTGGGCACCATG
CCTGAGGGTACCT

Sequence 5530

TGGTGGCCGCCGAGCAGCAAAAGGCGCAGTTTACTGCACAGGTGCATCACTTCATGGAGT
TATGTTGGGGATAAATGTGTGGAGAAGCCAGGGAATCGCCTAGACTCTCGCACTGAAAAT
TGTCTCTCCAGCTGTGTAGACCGCTTCATTGACACCACTCTTGCCATCACCAGTCGGTTT
GCCCAGATTGTACCTCCTCCTGCTCCTCAAGAGTGGTGGTCTATTTTGCCATCATCACCT
GCTGTCTGCTTAGAAGAACGGCTTTCTGCTGCAATGGAGAGAAATCATAACAGGACGGTG
GCACAAGGAGGCCATCTTTTCCTCATCGGTT

Sequence 5531

CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGTAAATAGGTCA
AGGCTCATTTTAAAAAATATGTTGANGGCGGGTGNGGGGGNCTAATNCCTGTAATCCNAA
NACTTNGGNAGGCTGAGGTGGTTGGGTCACCTGAGGTCAGGAGTTCCAGAGGAGCCTGGC
TAACATGGCAACAGAATGAAGACTGTCTCAAAAAAACAAAAAAATCAGTGTTCATGTGAA
AACCTGTGCGTCAATGCTTATATCAACTTTATTTGTAAAAAATAAAAATAAAAAACTGGA
AACTGAAANANAAANTNNACNAACANNNAAGTACCTGCCCG

Sequence 5532

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTTTTCACAAG
ATGGCGCCGAAAGCGAAGAAGGAAGCTCCTGCCCCTCCTAAAGCTGAAGCCAAAGCGAAG
GCTTTAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGAAGATC
CGCACGTNACCCCACCTTCCG

Sequence 5533

Table 1

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTATGAAGACACA
CCAAGACCTCCTCTGCTGGAAATGTCCAGGCATGTTATACTCTTTGTATGAATTCTGGAA
AAAGTAGTATATGGTGCCAAAAACTTAGAAGATGCATTTTCCTTTGGACATGAAATATGA
ATGCTTTTCTTTGNTTATTTTCATTCACAAGTAAATCCTTCTGAAGCTGTAACCTCTGGG
ATGCCATCTAGGCCAATTCCTTGACAAGTCAGGCTGCCATACAAAGATGGTTTCCCTGGG
GGATGACAGCTCAGCCAGGCCTCCCCTTCATCCTTCCTGAGGGCTTGCGCCCAGTCGCTC
TGAATCCTCAAAGGCGCCGCCATCTTCGACCCCGCCTCCACCAGCCCCCCCGCGTACCTC
GGCCGCTCTAGAACTAGTGGGATCCCCCGGGCTGCAGGGAATTTCGATATC

Sequence 5534

CTTAGGGCGAATTGGAGCTCCCCGNGGTGGCGGNCGGGCGTNGCNGCCGNGNTTCTGGAG
ACTGAGGCGGGAGGGTCACTTGAGCCCAGGAATTGTGAGATTAACCTGGGCATATAGGGA
GATCCTGTCTCTATTTAAAAAAAGAAGCTATGTTTACACTACACTATAGTCTATTTAAAG
TGTGAAATGGCGTTATGTCCTTAATTTTAAAACTCTTGATGCTGGCTGGGTTCGGTGGCT
CATGCCTGTAATCCCATCACTTTGGGAGGCCAAGACAGGTTGATTACTTGAATTCAGGAG
TTCAAGACCAGCCTGGACAACATGGCAAAACACGTCTTTAAAAAAAGAAAAGAAAAAAGA
AAAACAGAAAGAAAAAGGAAGAAAAACTACTTGCTGCCCTTACTTGAAGCTCAATTATTT
AAAACATAGAANAANATNCNCAAGAACAAAAAAAAAAAGGTACCTGCCCGGGCG

Sequence 5535

AGGTACGCGGGGAAGCCCAATAAACCTCTCATTCTAGCTAACCGCGTCGGGGAGCGGCGC
CGGGAGAAGGGCGAGGCGACTTGCATCACGGAGATGTCGGNGATGATGGCTTGCTGGAAG
CAGAATGAATTCCGCGACGATGCGTGCCAGAAAANAAGATCCNAGGGCTTTCCCTCGATT
GGTGCCCGCCGAGGGGCTTCAGGGAAGCCCCGANAAGNATGAAGAATCAATTACCAGGAA
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GTTTGGTTTACCAAGAAGGNTTNTCCCTAAACAAAACCCTTTAACCCTCCAANGCNTGAA
AAAANTGGGANCAAAGNTANTTTTTTTCAAACTNGGACCTGGAAAATTATTAAGGCCTTT
CCTTGGAACCAAAACNTAATTGGCCANCAAGNGCCCGTTTTNTTTANGCAAGAACCAATT
TGGGGCCAATTTTGGCCCCAATTGGCCCCNCTTNCTTTTTTGGGTNAGGGGNGTTTNNGN
GGAAAGCAAGGGGCCAAAA

Sequence 5536

GAGTAAGTTCTCACAAGGTCTGATAGTTTTATAAGGGACTTTTCTCCCTTTTGCTCAATA
CTTCTCCTTGCTGCTGCCATGTGAAGAAGGATGTGTTTGCTTCTCCTTCTGCCATGATTG
TGACATTCCCAAGAACCTGNAGGCCANGCTATGACACAGAGTCAATCAATAACCAGGGAG
ATCTGNGATATANCCCANTANGTGGGGCCTTGCTGCCATCTGCCATATNACCCTTCCAGT
CCCAGGCTTCTGAAGAGACCCGGTAAGTGCGGTGCAAATTTCAACTGACCTTATGGACGC
AGAACTTCAGCCATGAAGGTAACAGGCATCTTTCTTCTCAGTGCCTTGNGCCCTGNTTTG
AGTCTATCTTGGTAACACTGGAGCTGACTTCCCTGG

Sequence 5537

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTNGCTGGGGTCANAGTTTTAATCCT
GGGAAAAANAATCTGGCCGCTGGGCCATGCCCTGGGACTAGCCCGCTGGTCCCTGGTGTG
TCCNAATCAGTGCTCCAGTGCCCGCCTNTTCTCCAGCTTNTTCTGTANCTCTGCCGTCAT
GTCTGCCANCCCTGGGGGTTCAGGACCAGNANCTGCAGCTGGCTCAGGGATCCCCANTCC
ATGCCCACCGCCCTGACAGCCACCCAGGACCAGCTACAGATTTGCAGGGCCCCGTGCAAC
AGGACAGTGTGCTCGAAGGCATTAAGAAT

Sequence 5538

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACACACGGCCGGGCACAGT
GGTTCACACCTGTAATCCCAACACTNTGGGAGGCTGAGGCGGGTGGATCACAAGGTCAGG
AGATCGAGACCATCCTGGCCAACATGGNGAAACTCTGTCTCTACTAAAAAATACAGAAAA
TTAANCCAGTCATGGTGGGCACGTTCCTCTAGTCCCAGCTACTCGGGAGGTTGAGGCANA
AGAATTACTTCAACATGGGATGTGGAGGTTGCAGNGAGCCGAGATCGCGCCACTGCACTC
CAGCCTGGTGACAGAGCGAGACCCCATCTCAAAAAAAAAAAGTTGTNTGTGACAGCTAACC
ATAGTAAAAAAAAAAAGGAANGAAAATTAGAGAGAGAAAGTTGGGACAACACTAAATCATT
AGTAATTTGAGCACATTTCCTCCAAGGCANATGCTATTTTTTCAACTT

Sequence 5539

CCGGGCAGGTACTCCTGCTTGGTGATCCACATCTGCTGGAAGGTGGACAGCGAGGCCAGG
ATGGAGCCGCCGATCCACACCGAGTATTTGCGCTCCGGCGGGGCGATGATCTTGATCTTC
ATGGTGCTGGGTGCCAGCGCGGTGATCTCTTTCTGCATGCGGTCAGCGATCCCAGGGTAC
TTTTTTTTTTTTTTTTTTTTTTTTTTATTNAAAATGTTCTTTTTTTATTTGTCGTTTAAA

Table 1

AACAAACTTGGAANAAGCAAAATCCAAAACTTACCCTTTGCCTTTCGCAACATAAATATG
TACCTN
Sequence 5540
CGCGGGTGGGCGGGCCGTGTGGCGNCAGGGAGGACCCCTTACAGCAACCACAGCGTCGGG
AATCCGAAAGGGAAAAGAGGTGCGCAGGCGCCACACACGGCCTTTACCCCCGCGTACCT
Sequence 5541
CCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGTGCCATTTGGAGGGTAGGGGATCTGCTT
CCCACTGTGACTGGGCTATGGGATTCTGACTACCTTGCTTACAGATTCATGGTTTGATAA
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GAATATTTGTATTACTTACAATTAATTAATAAAAGTGGGAAAAAAAAAAAAAAAAAAAA
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ATGTGCAATTCTTAAAGAATGGGCAGATTGCATTCACAGGAACTACTTTTATTGGCTATN
TAGGATTATGGACTGGCCAGAGCCCACACAAGTTTACAGTTTCTGGTGATGAACGAGATA
AAGGCTGGTGGTGG
Sequence 5542
GTGGNCGGGCCGAGGANCTTTTTTTTTTTTTTTTTTTTTTTTTNCTGGGGTGGTTATTTT
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ATTTGNGTTTTAAACACGATTATATGAATTTTTCTTTTTTAATTAAAAAAANGACNTAAA
ACCAT
Sequence 5543
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AGAAACACCCAGAGGTGTGGAGGGGCAGGCCACCCCTTCAGGGTAGGGTCCCCTCCATGC
AGACCATAGAGCACAGGTGTGCCCCAAAGAGGAGCAGAGAGAAGGAGGGAGAGGGCCCAC
GAGAGACTTGGAAATGAATGGCAGGATTTTAGGCGCTGGACTTGGGTTCGGGGCACCTGG
CCTTTCCTTGTGTATTTCTCCTACTGTCTGCCTAACTATTTAATACNANTNAAAAAANAA
AAAAAANGTACCT
Sequence 5544
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GAGAGAAGCGGTCAAAGCTGAGGACAAGGAAGTGCAGCACCAGGTCCTGCAGCTGGCTGT
AGGGGATGCCATAGAAGGTGAAGGTCTCGTCAAACACAGGGTCCAGGGTCTTCCGCAGCA
CTCTGGTCTTCACCCGATGCCGTTTGTCAGGAAGGATGGTCATTTTGATGTAGGGGTCAA
ATCCCTGGGTCTGGTCATCCATCACTGGCAGCCCGTGGGCCTCCTGGATTGTCACCACCA
GGGCTT
Sequence 5545
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AGGGNCANTTGGGCAGGAAAATAAATTAAANGTCTTCTAGGTGGGAAGGGAAGAAGTATT
AACTAAATAGAGATGGGAGACGATATGGTGGTTTTGTGCATAGTAATCCAAGGGAAAAAC
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GGAATAAAAATGCAAAAAAATGATNGTTTAAAGGAAAAACCANATTTNTAAATTNTTTTC
AAACCAAATGGGTTCAAANGNCTCTGGGNTGGGGCNTTTGTTGCCCCTGGTTATANTNTC
CCATACCNCCTTTTTGNGGGAAGATTCTTGNANGGGCACNGAAANAGGAACCTGGCCTTA
TNAAGGGGCCNCAANGGAAGGACCCCCACGGNCCCTTGGGG
Sequence 5546
TCACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGNCAGGTACTTTNT
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TGAACTCCCAACCTAAGGNGATCCGCCCGCCTNATNCTCCCAAANTGCTGGGATTACAGG
CGTGAGCCACCATGCCTGGCTTAAGAGAGATNCAATAATTAGGGGATCCTTAAAAAAAAT
GGAACACTTTGTAAAAAANATCAAATTTCATACTTTTTGCTAGGAG
Sequence 5547
AGGTACAATATGCTGCAGCATAATTTGTCAGGCCAACCTTCACACCATATTTTGGCAGTT
CGTGTGCATACGCTGCGCAGACTATCATATCCCCCTCTATACGGGCATAAGCAATCTGAC

Table 1

AAATGATATCTCTGTTTGTCACACGAACTATCATCCTGTCCCGCGTACTTTNTTTTTTTT
TTTTTTTTTTTTACGAATGAGGCAATTTATTAACCCAGCATGGTTTGTTCTAATGCTTCT
TGTTGGCAGCTGCCACCTGTCCGGCGATTCTGTCCAGATCTCTTTGTCCCTGAGGTGTCA
AGTTT

Sequence 5548

CCGCGGTGGCGGCCGTTGCTGAGCTGGTGTGGAACGTCTGTGATCAGATTCATTGGGCTT
TTGCCAGCTCTTTTTAGATTGTCCTCTTGAGACCTGTTTACAGAGGAATGGCCAGAGGCC
ACAGGCACTGCCTCCTGAGACCATCCACCTGATGCGAAGAAAGCTAGAAAAGCCCAACCC
TGAGAAAAATGCTTGGGAACACAACAGCCTCACAATTCCGAGTCCAGCATGTGCTTCGGA
GGCCAGCCTGGGAAGTGACTGATTTATTGCTCACTGCTTTGGAAAATCCAGTAAAATATG
CTGAGGNCAATATGGAACAAAAGGACACAGACAGAATTATTTGTTCAACTAACATTCTTC
ATAAAAACTGATCAGGACACTCCCAAGGGATTGGTNTTCTCAAGAACAATGAAAGGA

Sequence 5549

AGGTACTTCTCCTCTTAAAGAATTGGCCATTTTCATTTATCATGTAAATTATCCACTTTT
ATGCATAACATACTTTCCGGCACGCCGGAGCCGCAAAAGCCTCGACCGCTACGACTCCTC
TGTCCGCTACTGCCCCGCGTACGCGGGGGTAGTGGCTTCGTCTTCGGTTTTTCTCTTCCT
TCGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGC

Sequence 5550

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NNGGNCNAAAANGGNTTTNANCCNNCNTTNAAANGGNCCCTTTNAAAAAAANNNTTCCCC
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NGGNGGGCAAANCCCNGGGNTTAAAAACCCAAAGGGNCCNGGTANAATTTTTTNNCNAGG
GCCANGGNAATTTTANGGGGGNGGGGGGTTTTCCCCCCCCCNTTTTANAGGGGGCTTTTT
GAANCCCC

Sequence 5551

NTAAGCGCCGTCAATCTCAAGCTCACTGCAAGCTTTGCCTCCTAGATTCAAGCAGTTCTC
CTGCCTTAGCCTCCTGAGTAGCTGGGATTACAGGCGCCTGCCACCATTCCCAGCTTAATT
TTTGGNATTTTTTAGTANAGACCGGTTTNACCATGTTTGGGTTAAGGCTGGTCTTTNAAA
CTTCTTNACCCTNANGNTTATTCCNNNTTGCCCTCCGTTCTTCCCCAAAAANNGCTAGGG
NTTAACNAGGCANTANANTCCACNGGGNCCCCGGCCCGCTTTTAGNAACTAGTNGGATCC
CCCGGG

Sequence 5552

AGGTACGTTGTTTAGCTGAAAGGGTCTTCTTAGATTTTCTGTGAGCACCAATTTGTTCTT
CAAGATACTTCTGCTGCATTTGAAGCAGCTGTTGGGTCTCCTGGAGCCACTCTTCATACT
GCTTACGCTGTGAAATCATTGACAAAGCCTGGACCAAAATTTGGAGGATTCCCGCGTACA
TGGTGCCAACCGCCTCGGGGGCAAACTCGCTTCTTGGACCTGGTTGTCTTTGGTCGGGGC
ATGTGCCCTGAGCATCCNAAGAAGTCATGCAGGCCTGGAGATAAAGTCCCTCCAATTAAA
CCAAACGCTG

Sequence 5553

GGGCCTTAGACAGCANATGGTGGGGTGTGTGTGAGGGGTGGTATGCGTGCTGCTCTGAGT
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NCGNCTGAGGTGGAAAAGAATCCAGCACTCTCCCCANCACTATTCCGACGTGGTCTCCCA
TCCCTNGGATGCCAGCTCCTATTAGGAGGNGGAGAAAGAAACGCGTGCCTTATACCAAAG
GCNCAATTAANAGAACTTTGAACGGTAATACGCCCACGAATAAAATTTCATTACTA

Sequence 5554

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGACAACGAGACTCTCGGGGTCC
CCGCGGTCGGAAGCCACCATGCCCAAGAACGGATGGCTGCTGATTACACCCGCTTGCCCG
CCGAATCCTTCCCCGCGTACCT

Sequence 5555

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCTCATCAG
AAAAAGAGCCCGCGCATTCTCCTGCCGATGCCTTGTCGGTCGTAGAGGACATTGAACTTG
TTCACAAACTGGTTCATGGTGTTGCACGTTTTGGTGATGGTGCCGAGGTAGGCCATGAGC
CCCACGTNGTTGCATTTGATCATAAAAAAATCTGTCTTGAACCTTNGTCCTGTGCTGAGC

Table 1

CACCNGGGAGACAGTTGACACAAGAGTCATAGGCCTCCCGCAGGGATCTNATGATTAAAG
GGGACCTNTCCCGCTTTNAGAGGCCTTGACCGTTACCTCGGCCCGCTCTAGAAACTAGNT
GGATCCCCCGGGCTTGCA

Sequence 5556

CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGAGCAAAATAACTTAA
AAAAAATCTTAAGAGGAGGAGGACAATGATATTTTNTAAAAACATATTTGAGGCTGGGCA
TGGTGGCT

Sequence 5557

CCGCGGNGGCGGCCGAGGTACCTATGACTCTGGCATCAGATTCCTGGCACCCCAGTCCCA
CTAGCTGTGGTCCCAAGAATGAACCTGCATTTTAACAAGATTCAAAACCATTGCAGAGGC
CAGGCGAGGTGGCTCACACCTGTAATCCCAGCANGTTTGGGAGGCCGAGGTGGGTTGGAT
CACCTGAGGTCAGGAGTTNAAGACCAACCTGGCCAACATGGCGAAGTCCTGTCTCTACTA
AAAATACAAAAATTAGCCNAGTGTAGTGGCAGGCNCCTGTAAATCCNTAGCTACTCGGGN
AGGGCTNNANGCAGGAAGAATTTGCTTGAATCNCGGGGAG

Sequence 5558

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCACGGTACGATCTTGG
CTCACTGCAACCTCTCCCTCCCGGGTTCAAGTGATTCTCGTGCCTCAGCCTCTTGAGTAG
CTGGGATTACAGGCGCGTGCCACTGCGTCCGGCTAATTTTTGTATTTTTAGTAGAGATGG
GGTTTCACCATGTTGGCCAGGCTGATCTCAAACTCCTTGACCTCATGTGGTCCACCCACC
TTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCTCAGCCTACAAGCAAT
TTTTTAAAAACTGACACCTATTACTGATAAAATTCTCTGTNTTAAAATCCCTATTTACCT
ATTTTAAAGATAAAGTAATTAGTTTTTTTTTTAAAATACAAGTCCCGCCGTTACTTTTTT
TT

Sequence 5559

TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATTGAGGGTGCTTA
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ACAATCATTTTTGAAAAAGGAAAACTAGGCTGGGCNGTGGTGGCTCACGCCTGTAATCCC
AGCACTTTTGGGGAGGCCTNAGGTTGGGGTTGGATCACCCTGAGGTCCAGGAAGTTTGAG
ACCAGCNCTGACTAACATTGGAANAAACCCTGTCTNTACTAAAAATACAAAATTAGCNTG
GNGC

Sequence 5560

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTTTGAGTCA
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TTTCGGNTAAAGGGTTCCAACAAAGTGAATGAAGCTCTTCTGCAAAGAATAAACAGTGCC
AAAAAAATCCACTTGGTTCCATGTCACCTCAGGGACAAGTTTGTCCTGCGCTTTGCCCAT
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GCTGGCGGCCCGCTCTAGNAACTAGTTGGAATCCCCCGGGGCTGGCAGGAATTTTCGTAT
AATCAAAGCTTATCGATACCCNTNNAACCTTCCGAGGGGGGGG

Sequence 5561

ACTACTACTATAGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCCCGGGCANGGTACGC
GGGTCCTGCAGGAAGCCGCGTGACTCCCGCCTCCTCCCTGTGCTCTCTGGCTCTGGACTG
TGACTGCGCCTGGATTCTGCCATTGCGACACATTTTTGTGCCTTTCAGCCCCTGGTGTCT
GCAGTGGGGGATTTAAGGCACCCGCTTCCACTTNTTTCTTGTNTGGAGTTTTNTGTTGGA
ACCGCCGGCGTTGGCTCCGAANACTTAACGACANCCACTGGCGGCACCTTCTNCTGCGCC
CAGNTGATGTATCCACNNGTGCCTGTAACCTCGGCCGCATCTAAGNAACTAGTTGGATCC
CCCGGGCTTGCANGGAATTTCCGATATTAAAGGCTTTATCGATTACCCGTCCGACACCTT
GAGGGGGGGGGGG

Sequence 5562

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AAGCTTGGACCGCATCCTANCCGCCGACTCACACAAGGCAGGTGGGTGAGGAAATCCAGA
GTTGCCATGGAGAAAATTCCAGTGTCAGCATTCTTGCTCCTTGTGGCCCTCTCCTACACT
CTGGCCAAGAGATACCACAAGTCATAACCTGGAGCCAAAANAGGACACAAAGGGACTCTC
GACCCAAACTGCCCCAGACCCTNTNCANAGGTTGGGGT

Sequence 5563

TTGGANCTCCCCGCGGTGGCGGCCGAGGTACACATGGTAGGCTAAAAATTAAAACTGCTT
TTCCACANAACTGATAAATTACTAGATTCTTGGTTCTTTCATGATATCATAACATTAAAT
CATTAAAAATATAAGGCAATTTAATGTAAACTACTAGCATTTACAAAACAAGTAAAGTTA

Table 1

TAAAAAAAACTGTAATTACCAAGCAAAATGCACCAAATACCAGNTGAACATGAAACCAGG
GAGTTGAAGTTTGCTGGAGAACATTNAAAATCACTTTTCAGNGGGTTTCACTTCACAATT
NCATGCTGCACTGGGCCTGACACGTTCAGCNACCATGAAGCANACACTTTTGGCAACNTA
GAAAATGTTAANCTTTTCTGTTTTGACTTTTTTTATCTTAAAAATG
Sequence 5564
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GGTATTACAGGCTACAGGAGTTTCAAGGTAGGGAAGGATGGCTGTGCATGGGCCCAGCCC
TGTGGAGGGTGGTGGTCTTCAGCCANTNNAAGGCCACCAGATCTGCCACTGAAGTAGGAC
CTTGCTTNCAATGGTGACAAGCCCTACAGCAAGATCTACAGGCAGACCTTAACAAGATAC
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TTACAAAACTTCAACAAACTGGACAGTTTCCNACAAGACNCTGGGAGGAANAGGATCCTA
ACCCTTCTTCTGCTTGGGAANTCATNAANGCCNAGGTTTTTANTTATTTTTCCTTTGGTC
C
Sequence 5565
NCCGCGGTGGCGGCCGCCCGGGCAGGTACACAGGGAAAGATAATAGGGAAGAGATGAGGG
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TTCTGCAAAATTTTGCAAGTGAAATGAAAAACAGTACTCGAAGTATTCACTATAGGGAAG
CTCCTCACTAATGGCCTCTTCTACCAGCAGCGATGTCTCATATGTCCAGCAGCGGGCAAC
ATTTCGGACAGTATAACCACCACCACCCAGCACGAGTAGAGGGATATTGAAGCTCTTGAC
ATATTCAACGCATTCCCCATGCCCTCGGATGCTGAGGTTAAAGCAGCCCAATCGATCACA
GCCCAGAGAG
Sequence 5566
GGTGGCAGGCCGCCCGGGCAGGTACTGTTGACATCAGATCTGCTGGGCTGGTGCCACTGG
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ATGGCCCATCTCCTGTCAGTAACCTGGTCCCATCTGTTTTGCAGATGACCCGTTGGCTTC
CTGACCACCTGGCCGCCCACTGCTATGCGTGCGACAGTGCCTTCTGGCTTGCCAGCAGGA
AGCACCACTGCAGGAATTGTGGGAACGTATTCTGCTCCAGTTGTTGTAACCAGAAGGTTC
CAGTTCCCAGCCAGCAGCTCTTTGAACCCAGTCGAGTATGCAAGTCTTGCTATAGCA
Sequence 5567
GGNGGAGTGACCTGGGGCTGTGGAGAGCGACCCGNGGCCTTGTGTTTCANAGTTTACCAC
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AGACTCATGATCATCAATTGGAATCAAGTCTCANTCCTGTGGAAGTGTTTGCTAAAACAT
CTGCCTCCCTGGAGATGAATCAAGGCGTTTCAGAGGAAAGAATTCACCTTGGCTCTAGCC
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CAAGTATGAAAGAAACGAACC
Sequence 5568
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GTTTCGGAGAAGGACTTGCATCATTTTGGCACTTTTTATTCTATTTATTTTCTCTCTGAT
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GAGTGACAGAATCAACAGTGAAACAAATACCAAGAATTTAAAAAGTGTTGAAATCACTAT
GAAACCTTCCAAAGCCTCTGAACTTAACT
Sequence 5569
CGAATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATGTTGACAAAAATGCC
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TCCCAGGGAAAGGAATTCCTTTATGTTCTTGGAAGCCCTTTTCTAGAAAAGCCATTCCAT
TCATACCTTTGTAGAGCAGTGGGCTGGGTGTGGAGGGCAGCGCGGAGGGTATCTGCAAGA
GCCTGTATTTTCCGCCTCCCTTGCCCCCACTCCTTTTATCCTTTTAAAAGTCCTATCAGC
CCTGCCTTCGTCCCTTCCGCCCTAAGCCCTAAGAGTGGGGGAGGTTTAATACGGCCAATG
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TAGACTAGTGGGGGACTGGCTACAGATAAAATGAGATNCAAAAGAACATTTGCAAATNAA
TGCCCTAAAAATTACAAGTNNGCTTGGGAATTTTNNTGAAATCAATGGCCCCTTGGGNTT
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ATNTNAAANCTTTGGGGGGGG

Table 1

Sequence 5570
GAATAGGACTCCCCGCGGTGGCGGCCGAGTACATATTGTATCTGTGTAACATTTTGTATA
TTCCAGGGGTAGGGCCGCCCCCTGTATCATACCTAGCANAGGTTGGAGCTGGCACATGGA
GAGGAGGTTCTAATAATTATTTGGGGCTGGGAAACTTATTTATTGATAGCATAGGACAGA
GGAAGGAGGTCNAGCGGCCGCCCGGGCAGGACATTCATTCTCTCAGGAAAAAAAACAAGG
TCCCCACAGCAAAGAAAAGGAATAGGATCAAGANATACGTGGCTGCTGGCAAGAGCAAGC
ATGAATTCG
Sequence 5571
CCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGGATTGTGGCAGCTGGAGGTCTCTGCAT
CGCTTATCCGTTTATTAGCCGGACCAAGATTGCACAGCTAAAGTCTGGCAGAGACTCCAC
GGTATGACTGTCCTCACTGGGCCTGTCCACAGTGCGAGCGACTCCTGAGGGGAACAGCGC
GGAGTTCAGGAGTCCAAGCACAAAGCGGTCTTTTACATTCCAACCTGTTGCCTGCCAGCC
CTTTCTGGATTACTGATAGAAAATCATGCAAAACCTCCCAACCTTTCTAAGGACAAGACT
ACTGTGGATTCAAGTGCTTTAATGACTATTTATGCGTTGACTGTGAGAATAGGGAGCAGT
GCCATGGGACATTTCTAGGTGTAGAGAAAGAAGAAACTGCAATGGAAAAATTTGTATGAT
TTCCATTTATTTCAGAAAGTTTGTATGTAACAATTACCCCGAGAGTCATTTCTACTTGCA
AAAGGATTCGTAACAAAGCGAGTATAATTTTCTTGTCATTGTATCATGCTTGGTAAATTT
TAATGCAGCATCTTCAGAACTTGTCCTGATGGTGTCTTATTGTGTCAGCACCAAATATTT
GTGCATTATTTGGTGGGNCGTCCTTGGTCACAGGAAGAATCTTCTTCNGGTGCCTTAATG
GTTTTTTTTTTTA
Sequence 5572
CACCGCGGTGGCGGCCGCCCGGNCAGGTACTGTGAGGAAGGAAGGACCACTCCACAAGAT
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GTGGGGCCAAGTGATCTATTCTATTTACTTGTGCTGACCGAATTTTTTCTTCAATTAATT
TAATTTCTTTAGTTGCCTCTGGAGTTAACGTTCTTTCACTATTTAATTCCNAGTCCCCTC
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AATTAATATCTCCAAATCCAATTACNTATCTNCTAGCANNCTTTTGAAACTCATTTAATG
CTTTTAATGTGTCTTTTCTTATTTCTATTTTTTGTGGTTTAATTTTCCTTTCCTCTACCT
GCATTCCCAAGTNACGGAAANGAGTAGAGGTTTNGAATCTTATCA
Sequence 5573
GCCCCCCCTCGAGAGTACTTCTAGAATTAATTAACAGCGGGTTTATCAACAAAGAACCCT
TAACACACCATACTATATTGCAATCCCTATGGTACCAGACTGTCGCAAAGAACATCTTTT
GGGAATGAAGTCATGAAAGAACAAGTTTGCTNGTGACCACCTCAGAGTNTCAAAACCNTN
CCTCCTCCAGCAAGACCCAACCACAAAAACTGTCTAAAGGCGCCCTGAGTTTGAGAATTT
TAGTGTNCTGCTCTGGGTTTTTCCAGGCTGCCTTTTTTTTGATACCANGCTTGCCCTGCC
TGTACCATTTTTTACTGCATANGCAGGCTGACAGCTCAGACTGACTGATGGCGGAGCCTG
CCTC
Sequence 5574
AGTACTTCTAGAATTAATTAACAGCGGGTTTATCAACAAAGAACCCTTAACACACCATAC
TATATTGCAATCCCTATGGTACCAGACTGTCGCAAAGAACATCTTTTGGGAATGAAGTCA
GAAGAACAGTTTGCTGTGACCACCTCACAAGTCTCAAAACCCTTCCTCCTCCAGCAAGAC
CCANCCACAAAAACTGTCTAAAGGCGCCCTGAGTTTGAGAATTTTAGTGTCCTGCTCTGG
GTTTTTCCAGGCTGCCTTTNTCTTGATACCAGNCTTGCCCTGNCTGTACCATTTTTTACT
GCATAAGGCAGGCTGACAGCTCATACTGACTGATGGCGGAGCCTGCCTCACAAATGTN
Sequence 5575
AGTACTTCTAGAATTAATTAACGCGGGTCTATCAACAAAGAACCCTTAACACACCATACT
ATATTGCAATCCCTATGGTACCAGACTGTCGCAAAGAACATCTTTTGGGAATGAAGTCAG
AAGAACAGTTTGCTGTGACCACCTCAGAGTCTCAAAACCCTTCCTCCTCCAGCAAGACCC
AACCACAAAAACTGTCTAAAGGCGCCCTGAGTTTGAGAATTTTAGTGTCCTGCTCTGGGT
TTTTCCAGGCTGCCTTTTTCTTGATACCAGGCTTGCCCTGCCTGTACCATTTTTTACTGC
ATAGGCAGGCTGACAGCTCAAGACTGACTG
Sequence 5576
AGTACTTCTAGAATNAATTAACGCGGGTNNATNAACAAAGAACCCTTAACACACCATACT
ATATTGCAATCCCTATGGTACCAGANTGTCGCAAAGAACATCTTTTGGGAATGAAGTCAG
GAAGAACAGTTTGCTGTGACCACCTCAGAGTCTNAAAACCCTTCCTCCTNCAGCAAGACC
CAACCACAAAAACTGTCTAAAGGCGCCCTGAGTTTGAGAATTTTAGTGTCCTGCTCTGGG
TTTTTCCAGGCTGCCTTTTTCTTGATACCAGGCTTGCCCTGCCTGTACCATTTTTTACTG

Table 1

CATAGGC
Sequence 5577
AGTACTTCTAGAATTAATTAAGGCGGGAGACCATGGGGATCCCCAGCATGATCCTCCTGG
GGCACAGTTTGGGAGGATTCCTGGCCACTTCTTACTCAATCAAGTACCCTGATAGAGTTA
AACACCTCATCCTGGTGGACCCATGGGGCTTTCCCCTCCGACCAACTAACCCCAGTGAGA
TCCGTGCACCCCCAGCCTGGGTCAAAGCCGTGGCATCTGTCCTAGGACGTTCCAATCCAT
TGGCTGTTCTTCGAGTAGCTGGGCCCTGGGGGCCTGGTCTGGTGCAGCGATTCCGGCCGG
ACTTCAAACGCAAGTTTGCAGACTTCTTTGAAGATGATACCATATCAGAGTATATTTACC
ACTGCAACGCACAGAATCCCAGTGGTGAGACAGCATTCAAAGCCATGATGGAGTCCTTTG
GCTGGGCCCGGCGCCCTATGCTGGAGCGAATTCACTTGATTCGAAAAGATGTGCCTATCA
CTATGATCTACGGGTCCGACACCTGGATAGATACCAGTCNGGAAAAAAGG
Sequence 5578
ACTTCTAGAATTAATTAACGCGGGTCTATCAACAAAGAACCCTTAACACACCATACTATA
TTGCAATCCCTATGGTACCAGACTGTCGCAAAGAACATCTTTTGGGAATGAAGTCAGAAG
ACAGTTTGCTGTGACCACCTCAGAGTCTCAAAACCCTTCCTCCTCCAGCAAGACCCAACC
ACAAAAACTGTCTAAAGGCGCCCTGAGTTTGAGAATTTTAGTGTCCTGCTCTGGGTTTTT
CCAGGCTGCCTTTTTCTTGATACCAGGCTTGCCCTGCCTGTACCATTTTTTACTGCATAG
GCAGGCTGACAGCTCAGACTGACTGATGGCGGAGCCTGCCTCACAAATGTGCATGCGCTA
GTCTCACAGCACCAGGCCTGACTGTGACCTTTCAGTAGAGTGACAATTAATGTCATTGGT
GCCTAATGCCAAAGTCCCTGTGAATTGGAGAAGAAGGGCACCTCTATACAGTTTTGTTGC
CCATGGACTCCCACTTGTCTTCTTTTGTNAAGACAGACAGGACAGTCCCATGATCCCAAA
AAGANGGCAAGATGTGAGAAGTCTGTAGAAACATCAAGCCACAAATTNCCAGAAATTAAA
TTCTGAAAATCCCAAAGGATGCCAAAGNAAATCTGTAGGATTCTTCAAGCCTGGCCTAGG
CATTTGTAGTTGGGAGTCANTTTGNAAACTTGCCCACTGGGANTTATAGGTNNTTAACCC
CTGTGTTCCCAAGGCCGGGCCG
Sequence 5579
AGTACTTCTAGAATTAATTAACCGCGGGTCTATCAACAAAGAACCCTTAACACACCATAC
TATATTGCAATCCCTATGGTACCAGACTGTCGCAAAGAACATCTTTTGGGAATGAAGTCA
GAAGAACAGTTTGCTGTGACCACCTCAGAGTCTCAAAACCCTTTCTTCCTCCAGCAAGAC
CCAACCACAAAAACTGTCTAAAGGCGCCCTGAGTTTGAGAATTTTAGTGTCCTGCTCTGG
GTTTTTCCAGGCTGCCTTTTTCTTGATACCAGGCTTGCCCTGCCTGTACCATTTTTTACT
GCATAGGCAGGCTGACAGCTCAGACTGACTGATGGCGGAGCCTGCCTCACAAATGTGCAT
GCGCTAGTCTCACAGCACCAGGCCTGACTGTGGACCTTTCAGTAGAGTGACAATTAATGT
CATTGTTGCCTA
Sequence 5580
AGTACTTCTAGAATTAATTAACGCGGGTCTATCAACAAAGAACCCTTAACACACCATACT
ATATTGCAATCCCTATGGTACCAGACTGTCGCAAAGAACATCTTTTGGGAATGAAGTCAG
AAGAACAGTTTGCTGTGACCACCTCAGAGTCTCAAAACCCTTCCTCCTCCAGCAAGACCC
AACCACAAAAACTGTCTAAAGGCGCCCTGAGTTTGAGAATTTTAGTGTCCTGCTCTGGGT
TTTTCCAGGCTGCCTTTTTCTTGATACCAGGCTTGCCCTGCCTGTACCAT
Sequence 5581
TTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTC
AGTANAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAN
AAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGNGCTCATAGTGAAACTGAGAGGNG
ACCACTCTTAATATTTTGNGGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCAC
ATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTGNGACCACATA
GTATCCTATTATATTGATAATACCATAATTTACCTAACCCATTTTTATATATTTGGATTT
TTTCCAATTCATCATTATTATGAATAATGGTGTATCTCAAGTGGTTATTACTT
Sequence 5582
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGACCAGAGAGGCCCC
AAACTAGCAGCCTGTCCTCCTCAGTAGCCCCAGCATCCCTTCATCATTTTGTTGCCCTTC
TATGGGCCTAGTTTAGGTCTGAGAGGCATAGTTTTAAAATTTTTATTGNTATTNATTNAT
TCTANAGATAAGGTCTTGCTATGTTTCCCAGGCTGGTCTTGAACTCCTGGCCTCAAGCAA
TCCTCCTGCAGCAGCCTCCCAAAGNGCTGGGATTACAGGCATGAGCCACCACNTCTGGTC
AGACAGGCATAGTTTTACAAATNTGNGGGTGGATAAATGCTGNCCAGTCTTACTTTATCA
CTTNTATCAATTGAATGCTTTTGGTT
Sequence 5583

Table 1

826/863

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTGGAAGTAGATTGTTTCTGCTAGGCAATATAATCTGCTAATGTGACAGTTTCCCT
GTAACAATGTGTAGCAAAACTCTGCAGGATTAATGANAANAATGTATTGCCTTTGAAGCA
GCNCCACTTGAGTAAAAATTCCTCAAATGTGCTCTATGTTATGCTAGTGTAAGTATAGCA
CCGGAGGATATTTCTTGGGCCTACTTTGCAAGCCTNTGAGAGGTGCTGTGCAGCTCCGAC
CATGAACTGCTCTCCTAATTGAANAGGGTCCCAGGAAGGGGAAG
Sequence 5584
CGCTTTTTTTTTTTTTTTTTTTTTTTTGAGGTGGAGTCTTGCTCTGTCACCAGGCTGGAG
TGCAGTGGTGCAATCTTGGCTCACTGCAACCTTCCCCTCCTGGCTGAGTTAACTTAGGAG
AGCTTCCTGGAGAGGGCACCTTTGAAGATAGGAAGGATTTCATGAAGTCTTTACTAGGCC
ACTAGAGTAGAAGCAGNGGGAGACTTCCTGGAGAAGAGCTCATGGAAAGAAAAACCTACC
GCTGGCCCTTTGGGAACTGCTTTGGGCCTCTTTAGTCCTAGGCTCACACGCCCCTTAGAA
ACAAAGTAAGAATAAAGCCAGGGATAATACAGTGAGTGGCCAAGAACACAGACTCTGGAG
CCAGACTACCTGGGTTTGAATCCCAGTTACCAGCCATGTGACTTTGATCAAGTTGCTTAA
CCTTTGTGTGCTTCAGTTTCCTCATCTGTAAAATAAGGGGATGGTAATTGTGACTTCCCA
GAACTATGGTGGAGAGCAAATGGGTTAAGAGTGTGCCGCTGTAAACTGTANAAGTGCTGG
GCTTTCATTGGGGAAGTATTACCTTTCATTGCTGCAGTTGAAACTGGTTGCTGGGGCNAN
TTGAAAAAGGAGTTAAAAAAA
Sequence 5585
NTNGAGTACTTCTAGAATTAATTNNCGCGGGCATTGTTTGCAGAAGACCTGGACTGGAAT
CTAACACTGTGAGTNCTCCCCAGGATCCGTGTTCCTCTCTTTAGCCCAGGCATGCAGTTA
CATTACATTTTCCAACCTTCCTTGCAGTTAGCTACGATCACGTGACTGCATTCTGGCCAG
TGGAATGTGTGTGGAAGTGATGTGGGCCAATTCCAGGCCTGGCCTATAAAAATCCCCCAC
TTTTTGTTCTCTTTCTCCATCCACCATCTGCATGGAGAGCTCCCAGCACTAGAGGGAGAA
AAAGCCACCAGAGGGAAGGAGCCTGGGTCCCTGAATCACTGTGTAGACTACCTGCCAAAC
ATACACCCTGAATTGTTATGGCAATAACAAATAAACTCCTAATGTGTTAAGCCATTTAAA
TTCTGGGGTTGTTACAGCTGTTAAGCCCAGTCTGACTAACATAGCCTCTTAAGAGGCTTT
GGATAAGTTTCCTAGCCTNCCTGAGCTTCAGTTTCCTCATCTCTAAAAATGATAATTGGA
AAAACCTTTCTGAAAATGACTGGAGCTAATATTT
Sequence 5586
CCGCGGTGNGCGGCCGCTNNNTTTTTTTTTTTTTTTTTTTTTTTNTTGNAGCACAAAAAT
CTGGGTTTTATTTATTCATTTGTAAACTCAAGCCAGTTCTCTATTCCACTTTTTCCAATT
ATTTGCTTTTGAGAGTCTCAGGATTATCCTTCTTCCTCTCCTTCCACATTTTCTCCCCTG
TCCCTTCTCCTGGCCATGCTTNTCTAGTCCCGACGGTCTTGTTTANATCACAATGCGGTT
TGTANATTTTCCTTCACTCTCTCTTTCANAAAAAAAATGCCAAAATGGTGTTTTAAGAAGC
TTTTATTGAGCCAACTGAACTTCAACAAAGCAAACGAAAACATAAAGTAGGGAAAGGAAC
CCTCTTCAACAAATGGTGTTGGGATAATTGGCAAGCCACATGTAGGAGAATTAAACTGGA
TCCTCATCTCTCACCTTATACACAAATCAACTCAAAATGCCCCGCGTTAATTAATTCTAA
NAAGTACTCTCGAGGGGGGGCCCG
Sequence 5587
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAGNACAAAAATCTGGGTTTTATTTATTCAT
TTGTAAACTCAAGCCAGTTCTCTATTCCACTTTTTCCAATTATTTGCTTTTGAGAGTCTC
AGGATTATCCTTCTTCCTCTCCTTCCACATTTTCTCCCCTGTCCCTTCTCCTGGCCATGC
TTCTNTAGTCCCGACGGTCTTGTTTANATCACAATGCGGTTTGTANATTTTCCTTCACTC
TCTCTTTCANAAAAAAAATGCCAAAATGGTGTTTTAAGAAGCTTTTATTGAGCCAACTGAA
CTTCAACAAAGCAAACGAAAACATAAAGTAGGGAAAGGAACCCTCTTCAACAAATGGTGT
TGGGATAATTGGCAAGCCACATGTAGGAGAA
Sequence 5588
CCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTAACTTTTGACAGAGACT
ANGATCTTGCTATGTTGCTGAGGTTGCTCTTGAACTCCTGGGCTCAAAGAATCCTCTCAT
TTCAGCCTCTTCAACTGCTGGTATTACAAGCATGACNCCATATGGGCTGGAAGCTGATTT
TTAAAATACTGAGACCATATAGATGACAGCACCCAGAGAAACAGAAATATTAACTGAAGT
TGTTGCTGGCAGACCATTCTTTCTTTCCACCTTTCTTTCTTCCTCCCTCCCCCTCCTCCA
TCTTTTTACTTTTCGCCTCTTCCTTTCTCTTCTTTCTCTCCTTCATTATCCCTTTCACTG
TTTCTCTTTCTCCCTTTCTTTTTTCTTTTCTTTCCCCCGCGTTAATTAATTCTAGAAGTA
CT
Sequence 5589

Table 1

TNCCGGCGAATTGGATNTTCCNGCGGTGNCGGCCCGCTTTTTTTTTTTTTTTTTTTATTC
CTAATTAGATGGGGNNGAAAGTCTTTTNNTAGGAACCTCTACGTTTTACAGCCTTAATAT
CATNGTGTAGTGAGTCTCACCACTTTATTCTTCTTTGTCAAGGTTGATTTAGCTATCTGA
GATCTTTGNCTTTTCATATAGATTTTAGAGTAAGTTTGTCTATGTCTACATAAAAGCTTG
CTGGGATTCGAGGCCGGGTACGGTGGCTCACGCCTTTAATCACAACACTTTGGGAGGCTG
AGGCAGGTGGATTACTTAAGGGCAGGAGTTTGAGACCAGCCTGGCTAACAGTGGAACCCT
GTCTCTACCAAAAAAATCAAAAGCTGGGCGTGGTGGCTCACGCCTGTAATCCCAGTACTT
TGGGAGGCCGAGGTGGGTGGATCACGAGGGCAGGAGATCGAGACCATCTGGCAAAACATG
GTGAAACCCCGTCTCCACTAAAAAATCAAAAAAAATTAGCTGGGCTTGGTTGCCGGCGCT
TGTAGTCCCAACTACTTAAGAAGCTTGAGGCAGGAAAATGGCGTGAACCCCGGANGNGGA
GCTTGCAGTGAGCCCAGACCGGCCACTGNACTTTACCCGGGCGAATGACCAAACTTTTTN
TNAACCAAACCNAAACCNAAA

Sequence 5590

CNTCCTAAAGGGAACAAAAGCTGGGNNCNGNGCCGGGCCCCCCCTCGAGAGTACTTCTAG
AATTAATTAACGCGGGACTGCTAACAATTAGTCCATCACTATCCCCTCAAGTCAAAATAA
TGCCCATCAGACCTCAGGGGCGGGGTGACTACCCAAGATAGCCATCTGAACGTGCACACG
GACCCAATTTTCCTGTAACCTCAAGGTGGTGTAAAAGGGGCAACCATCTGGTCATTTCTT
CGAGTTTTTTTTATATTTTGTATAACTCCTGTGCACATAATAAAATATGTAAGCCTATTT
TTCTGCTAATGTGTGTACTATCAGTTTGTTTTATGGACTCACCCCTAAGGAGAAAAATGT
AAATTTACCTACATGTGAAATTTAGTTTGGAGCTTGGCTGCCGTGGACCTAGCTAAAACT
GGGTGGCCTGGGCTCTCCCTTCCCAGATAAAACTTCTTTTTTTTTTTCTTTCTGAANATG
GTAAGGGTGGA

Sequence 5591

CCGCGGTGGCGGCCCGCTNTTTTTTTTTTTTTTTTTTTTTTTTTTAACTTTTAATTTCTGAT
CGAGTCACAGANNGATTTGTTGAGTAGCTTCAGCACTTCTTCCTTTGTCATTTTTTTCTG
TCTGATAAGTCATGCCATGGACGTTACCCATTTTTATCCCAGAGGCCTCTTACGTTGACT
TGAAAAGACGGACTATGTCTTTCAGAGATCTTGTGGGTATCACATCAATCTTGACAAATT
TTCTACCCTCCAAGTCATGATCCTAAGAACAGCTTGCCTCCCATTTCTCCGGTTTGTGCT
ATTATGAAGGCCTTATTGTTTCAGCCTTCTTCAATCTTGAGGGTTGTTGTCACTGTATGG
GTGGTTCAAGAAATAAAGTAGGTCCTGTTACTATGAAGGGGGTCACAAGCTTTTGTTGGC
ATATCTAAACTTTGTGGCTCATGGAACAGTATGAATGCANAATGTAGCTTTCTCCACTTG
TGGACTGCTTTGCATAGCTGCCAAAGGCCTCCANAGAAAACCTTCAGGGCTTTGNGGTCT
TTATCTGTAGCACGGATCTTAAATTTGNGGGTTCATAGGTCAACTGGATACAGGGCATTT
TTTGGGACAATTTCTGGCATTTTTTGAACAANACAAAATTTTTTTNCCANGNATATTTGC
ATTGGACCTTGGTNCCGNTTGAAGGGAAGTCTGTTGNCCAACTNTTTGCAATGCAAACCC
ATGCCCCTNGATTTCCAAAATTTNTGTNGGGNAACCCANAGAATTGGAANGCTTCAGGGG
AAAATATNATTTTATAGAATACTTNTTTNTAGGCNGGGGNNGGAACAAAAAAATNGACCG
CACCAAGGCTTTTTNCTTTTTTTCTTTTTTGGGNNNNCCCAAAAAAAAAAAAA

Sequence 5592

AGTACTTCTAGAATTAATTAACGCGGGGAATCCGGTGCGGACGCACGCGAACTCTGCCCG
GGAGCCGAGGTGACTGATCTANCTGNTCTNGGTAATAANNATTTGCAAAACACATCTGAC
CAAAATCCTNTTAANTTCATGAAAGCTNNCTTTATAGGATGATTTTTGAAGAACCAGTNT
TATTAANGAGATTACACCAAAAGCATAAACAATTTATACGTCAAACTCCGACTGAAAAAA
AAAAATAACCGATNAAGGNATGTTTTTTA

Sequence 5593

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTNACTAGAATNGTTNTTATAGGGCTTCCGTTATTTATTTTTATTTTTTTTATTATAC
TTTAAGTTTTAGGGTACATGTGCACAACGTGCAGGTTTGCTACATATGTATACATGTGCC
ATGTTGGGGGGGCTGCACTCATTAACTCGCCATTTATATTAGGTATATATACGTGTTCAT
TGNACCCTTATCGACTTTGCAGCATGCTTATCCATCTAACTATTCATCTTTATTTGCCTT
CGTTTTTTGAGTTCCCTTATTCATCCTAAAACAAAATATAATGCCTGACTCATAGTCAGA
CTTCACAGTATTTTTAAATGAATTACATTGCATTGGGGAAATATAAATAGTAATGTCCTT
TTATAGAGGAAGTCTAAAAGAAA

Sequence 5594

TTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTC
AGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAN
AAAATGCANAAAATTTCAAGAAAAACATTTAAATTGTGCTCATAGTGAAACTGAGAGGNG

Table 1

ACCACTCTTAATATTTTGNGGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCAC
ATAAACTTTNTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTGTGACCACATA
GTATCCTATTATATTGATAATACCATAATTTACCTAA

Sequence 5595

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATA
CCCAAAGGCTCTATTTCAGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTG
CATTCTAGAGACCTTAGAAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGTGCTCAT
AGTGAAACTGAGAGGTGACCACTCTTAATATTTTGNGGCATAAGCATTCCAGTCTTTTAT
CTTTCTCAAAGTTTCACATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGA
TTTTTTGTGACCACATAGTATCCTATTATATTGATAATACCATAATTTACCTAACCCATT
TTTATATATTTGGATTTTTTCCAATTCATCATTATTATGAATAA

Sequence 5596

GAGGAAGGCACCTACAAAACGAAAGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTTA
CAAATATTAGCTCAGTCATTTTCANAAAGGTTTTTCCAATTATCATTTTANAGATGAGGA
AACTGAAGCTCAGGGAGGCTAGGAAACTTATCCAAAGCCTNTTAAGAGGCTATGTTAGTC
ANACTGGGCTAACAGCTGTAACAACCCCANAATTTAAATGGCTTAACACATTAGGAGTTT
ATTTGTTATTGCCATAACAATTCAGGGTGTATGTTTGGCAGGTAGTCTACACAGNGATTC
AGGGACCCAGGCTCCTTCCCTNTGGNGGCTTTTTCTC

Sequence 5597

TTTTTTTTTTTTTTTTTTTTTTTTTGANAGACAAACATGGGCCACATTTTTAAGACAAAC
ATGGACCACAACCATGCTGAGAGAACTTANAGTGAAGTTTACATGGCTATCTTTCTTAGT
ATTANAAATTTTACCTGATAAACATCAAACATACGACCAACATAGCATATAAAGCAGCTC
TACANATATTTTCCTACTGCCCAAAATATCATATAATGCACATGTAGGTCACATGTGAGT
AGGCAAGAGATTNTGGAACACAGAANCAAGACAACAGGATCACAGCAATTTCAGTATGCT
CTGCTTGTTATAGGAAATCCCCANAACATTCTCCAATTACTGAACAAAAAAAGCAATAAA
ACTCANATTTGTCTGCCTGGGGAGAAATAAAC

Sequence 5598

TACTACTATAGGGCGAATTGTAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTT
TTTTTTTTTTTGGAAGTAGATTGTTTCTGCTAGGCAATATAATCTGCTAATGTGACAGTT
TCCCTGTAACAATGTGTAGCAAAACTCTGCAGGATTAATGANAANAATGTATTGCCTTTG
AAGCAGCNCCACTTGAGTAAAAATTCCTCAAATGNGCTCTATGTTATGCTAGTGTAAGTA
TAGCACCGGAGGATATTTCTTGGGCCTACTTTGCAAGCCTCTGAAAGGNGCTGTGCAGCT
CCGACCATGAACTGCTCTCCTAATTGAANAGGGTCCCAGGAAGGGGAAG

Sequence 5599

GACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTGAAATATGCCCACCCATTTCAGGTTGAGCCACGGATAAGGAGGGCTTAGCTC
ATGTCTCCTGNGGGAATTGAGGCATCTCAGGAAACAGTATAGAGTTGGTACAGTTAGAAT
GANAAGAANCCTGGGGAAAGAAACCAAGAGTGANAAATGCGTGGCTATTTTGACTTANCT
GGAGCAACCCTNTCATAACAGGCTGGGAAGTGGACCCNCGTTAATTAACNCGGGGGAAAT
TGATGAACAAACAAAGGTCATAGTAAAAGACAGACTTTTGGGGATAAAAACANAAAC

Sequence 5600

AGTACTTCTAGAATTAATTAACGCGGGACTGCTAACAATTAGTCCATCACTATCCCCTCA
AGTCAAAATAATGCCCATCAGGACCTCAGGGGCGGGGTGACTACCCAAGATAGCCATCTG
AACGTGACACACGGACCCAATTTTCCTGTAACCTCAAGGTGGTGTAAAAGGGGCAACCAT
CTGGTCATTTCTTCGAGTTTTTTTTATATTTTGTATAACTCCTGTGCACATAATAAAATA
TGTAAGCCTATTTTTCTGCTAATGTGTGTACTATCAGTTTGTTTTATGGACTCACCCCTA
AGGAGAAAAATGTAAATTTACCTACATGTGAAATTTAGTTTGGAGCTTGGCTGCCGTGGA
CCTAGCTAAAACTGGGTGGCCTGGGCTCTCCCTTCC

Sequence 5601

AGTACTTCTAGAATTAATTAACGCGGGGGGACGAAGCGCAGCCTGCACTCCCAGATCCGC
TCATTTTCGTTCTGCCCTCCGTTTTACGATTCGCCTACACTGAAAATGCGTGAGTGGAGT
GGAAAGCCTTCCTACTCCTGCCTCAGCGACCCCTTCTAAAATACTGCCTCGTTTGGCCTG
AAAATGTGATTTGCAGGCTTCCTGAGCAAAGTAGATTTCACTCCATTAAAGAAAAAAAAA
AGAAAAGGCACCGAACGGGGCTCGGCTGTCGGGAGTTTTGCTTTAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

Sequence 560[illegible]

TCCTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTT

Table 1

TTTTTTTTGAANAATCAACAGACTNTATNTTTGATCACAAAGCAAAAGTTTAAGTGTATT
ACTTAAAATTTTAAGACAAAATCTGGAATAATTATAACTAACACAAATTTTGAGGTAGAG
GAAGANAATTCTAGAGATAGGNGAGATAAAATTTTCATCTTTGATAATGAGTANACAAAA
ACNCTACCTTTAACAAGGGAAGAATTTAAAAAATTTAGAGAAGAGGAAATCATANGNGGT
TTTTAAAATTTATTATNCATATCGNGGTAAAGATAATCCAACAGAAAATGAGATTTGAAC
AGACNCTTCACAGGAGATAGACAAATGNCTCAACCTCATTAGTNACCANACAAATGCCAA
ATT

Sequence 5603

AGTACTTCTAGAATTAATTAACGCGGGACTGCTAACAATTAGTCCATCACTATCCCCTCA
AGTCAAAATAATGCCCATCAGACCTCAGGGGCGGGGTGACTACCCAAGATAGCCATCTGA
ACGTGACACACGGACCCAATTTTCCTGTAACCTCAAGGTGGTGTAAAAGGGGCAACCATC
TGGTCATTTCTTCGAGTTTTTTTTATATTTTGTATAACTCCTGTGCACATAATAAAATAT
GTAAGCCTATTTTTCTGCTAATGTGTGTACTATCAGTTTGTTTTATGGACTCACCCCTAA
GGAGAAAAATGTAAATTTACCTACATGTGAAATTTAGTTTGGAGCTTGGCTTGCCCGTGG
GACCTAGCTAAAACTGGG

Sequence 5604

TTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTC
AGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAG
AAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGTGCTCATAGTGAAACTGAGAGGNG
ACCACTCTTAATATTTTGNGGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCAC
ATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTGTGACCACATA
GTATCCTATTATATTGATAATACCATAATTTACCTAACCCATTTTTATATATTTGGATTT
TTTCCAATTCATCATTATTATGAATAAT

Sequence 5605

AGTACTTCTAGAATTAATTAACGCGGGACTGCTAACAATTAGTCCATCACTATCCCCTCA
AGTCAAAATAATGCCCATCAGACCTCAGGGGCGGGGTGACTACCCAAGATAGCCATCTGA
ACCGTGACACACGGACCCAATTTTCCTGTAACCTCAAGGTGGTGTAAAAGGGGCAACCAT
CTGGTCATTTCTTCGAGTTTTTTTTATATTTTGGTATAAACTCCCTGGTGCACATAATAA
AAATATGTAAAGCCTATTTTTCTGCTAATGTGTGTACTATCAGTTTGTTTTATGGACTCA
CCCCTAAGGAGAAAAATGTAAATTTACCTACATGTGGAAATTTAGTTTGGGAG

Sequence 5606

AGTACTTCTAGAATTAATTAAGGCGGGCTATTTGTACCACTACACTCCAGCCTGGGTGAC
AGAGTGAGACTCTCTCAAACAAAGAAGAAAAGATAAACAAACAAAAAAAAGAAAATTGAC
ATGTTAATTCTAAAATTAATATGAAAATTTAAAAATTTAAAATACCAAAGTAATTTTGAA
AAATAACAAAGCTGGAAACTGGTCTTGCCTGACTTTGAGACTTGTAAAGCTATAAAAATT
AAGACAGTGTGATAATAATCTCAAACTATACAAATAGTTAAATATGACAGAACAGGTAGA
CCCACATATATATAGATAGCTGATTTTCAAGAGACATGCAAAGTTAATTCATGGGC

Sequence 5607

AGTACTTCTAGAATTAATTAACGCGGGACTGCTAACAATTAGTCCATCACTATCCCCTCA
AGTCAAAATAATGCCCATCAGACCTCAGGGGCGGGGTGACTACCCAAGATAGCCATCTGA
ACGTGACACACGGACCCAATTTTCCTGTAACCTCAAGGTGGTGTAAAAGGGGCAACCATC
TGGTCATTTCTTCNAGTTTTTTTTATATTTTGTATAACTCCTGTGCACATAATAAAATAT
GTAAGCCTATTTTTCTGCTAATGTGTGTACTATCAGTTTGTTTTATGGACTCACCCCTAA
GGAGAAAAATGTAAATTTACCTACATGTGAAATTTAGTTTGGAGCTTGGCTGCCCGTGG

Sequence 5608

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTT
TTTTTTGGACCAGAGAGGCCCCAAACTAGCAGCCTGTCCTCCTCAGTAGCCCCAGCATCC
CTTCATCATTTTGTTGCCCTTCTATGGGCCTAGTTTAGGTCTGAGAGGCATAGTTTNAAA
ATTTTNTATTGNTATTTATTTTATTCTAAAAGATAAGGTCTTGCTATGTTTCCCAGGCTG
GTCTTGAACTCCTGGCCTCAAGCAATCCTCCTGCANCANGCCTCCCAAAGNGCTGGGATT
ACAGGCATTGANCCACCACNTTTGGTCANACAGGCNTNGTTTTTACAAANTNTGTGGGTG
GGATAAATGCTGTCCAGGCTTACTTNATCACT

Sequence 5609

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGACCAGAGAGGCCCC
AAACTAGCAGCCTGTCCTCCTCAGTAGCCCCAGCATCCCTTCATCATTTTGTTGCCCTTC
TATGGGCCTAGTTTAGGTCTGAGAGGCATAGTTTAAAATTTTTATTGTTATTTATTTATT
CTANAGATAAGGTCTTGCTATGTTTCCCAGGCTGGTCTTGAACTCCTGGCCTCAAGCAAT

Table 1

CCTCCTGCAGCAGCCTCCCAAAGTGCTGGGATTACAGGCATGANCCACCACGTCTGGTCA
GACAGGCATAGTTTTACAAATATGTGGGTGGATAAATGCTGTCCAGTCTTACTTCATCAC
TTNTATCAATTGAATGCTTTTGGTTGGAAATAACAGAAAATCCACTAAAAGTGACTTAAA
CAAAGGAAATGTTATTATNTCATGTACCAGGAATTCTGGAGGTAGACTGGTTCAAGGGTG
GATTAATTAATTTTAGAANTACTCTCGAGGGGGGGCCCGGNCCCAANCTTTTGTT

Sequence 5610

AGTACTTCTAGAATTAATTAACGCGGGTCCAGGTCTCTGAGTCCATTCTTTGGGTTTGGA
CAGGTAGGTTTGTTTCTCACAATACCAGGTATAATACCAGTAGAATGTTTCATATAATTT
AACAAGTTCATTATAAAATGTACTTGAAATTGCAAAGAGCCACAAAAAAAACCCAGACAA
TATTGATGAAGAAAAGACGAAGTCAGAGGACCTATACTACAAGATATCAATATAAATTAT
AAAGGTACCATAATTAAAACTGTGGAACTGGAGTAAACATGGACAAGTAAGACCAATGTA
GTTAAAAACAATTCTGAAAAAGACCCACGCATATATAGATGCTTGATTTATTACCATGTT
GCTACTATAAACAAGGGAAAACTGTTTTTTTAAAATAAATTATGCTGAGTCAGGCCAGGC
ACAGTGGCTCGCGCCTGCAATCCCAGCACTTTGGGAGGCCAAGGTTGGCTG

Sequence 5611

TTTTTTTTTTTTTTTTTTTTTGAANAATCAACACNACTCTATNTTTGATCACAAANCAAA
AGTTTAAGTGTNTTACTTAAAATTTTAAGACAAAATCTGGAATAATTATAACTAACACAA
ATTTTGAGGTAGAGGAGAGAATTCTAGAGATNGGNGAGATAAAATTTTCATCTTTGATAA
TGAGTANACAAAAACACTACCTTTAACAAGTGAAGAATTTAAAAAATTTAGAGAAGAGGA
ANTCATAAGTGGTTTTTAAAATTTATTNTACAGTATCGNGGTAAAGATNNTCCATCAGAA
AATGNGATTTGAACAGACACTTCACAGGAGATAGACAAATGTNTCAACCTNATTAGTCAC
CNGACAAATGCAAA

Sequence 5612

CCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTNTTTTTTTTTTTTTTAAAAGCAAAACTCC
CGACAGCCCGAGCCCCGTTCGGTGCCTTTTCTTTTTTTTTTCTTTAATGGAGTGAAATNT
ACTTTGCTCAGGAAGCCTGCAAATCACATTTTCAGGCCAACGAGGCAGTTTTTTANAAGG
GGTCGCTGAGGCAGGAGTAGGAAGGCTTTCCACTCCACTCACGCATTTTCAGNGTAGGCG
AATCGTAAAACGGAGGGCAAAACGAAAATGAGCGGATCTGGGAGTGCAGGCTGCGCTTCG
TCCCCCCGCGT

Sequence 5613

ACTGGAATCTAACACTGTGAGTACTCCCCAGGATCCGTGTTCCTNTCTTTAGCCCAGGCA
TGCAGTTACATTACATTTTCCAACCTTCCTTGCAGTTAGCTACGATCACGTGACTGCATT
CTGGCCAGTGGAATGTGTGTGGAAGTGATGTGGGCCAATTCCAGGCCTGGCCTATAAAAT
CNCCACTTTTTGGACTNTTTCTNCATCCCATTGNATGGAGAGCTCCAGCCTANAGGGAGA
AAAAGCCCCAAAGGAAGAGCCTGGGTCCTGAATACTGGNAACTACCTGCAAACATACACC
TGNATGTATGNAATACAATAACTCTATGNGTAAGCATTAATCTGGGTGTACANTGTANCA
GCTGCTACANANCTTTAAAGCTTGANAGTTCTANCTCTGCTTAGTTCTANTTAAAGAATG
GAAACTTNGAATGCGNCTAATTGAAGCCAATACTTGAGCCAGNTCGTTGAGGCTCTAAAA
AAAAAAA

Sequence 5614

AGTACTTCTAGAATTAATTAACGCGGGTTCGTCCTAAGGACCACTGTCTGTGCTGTGTCT
TTCAAAGGTCAGAAGAGATTGAACCTTTGTGTTTTTATTTTCCCTGTGTTTGCTTTTTCT
CATGGGGAACCTGGGGTTGCTGCTTTGAAGGTATATTCATACTGGCCTTTCAAATGCCAG
CTCTTCAAATTACTAGTTAAGGCTTTCAAAATATGTTATTTAAAAAATTATCCTCTGTAT
TTTCCATATGCAGTTATAAGTAGGTTTCATGGTTATGTTTTATTCCTCAGTTTATACATT
TGATTATTGTACCAAGCAGAGTACCTTTGAAATTTTTTTTTCATTTAAAAAATATGGGAT
C

Sequence 5615

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTTT
TGCTGAGATCTTCTTATTCAACCCATATCAATTTGACTGGACTTGTAGCATTCAAATATT
AACACAGATTTCAAATTTTAGAAAGATATTTGTACTAGAATACTTGCAGGTAACTCTGTG
GATTNATTAGTATGGAAATTGTTTATAAAGACACACTCTGAATTTTTGTGGTCAAGTAGG
GTTTGTAGAATCTTTGATAGCCCAGCATGTTAAAATGTAAATGTTCTAGAAAAATAATCT
TTCACTTTCCCTGNGAAAAGACCCCGCAAAAAGTTTTTTGAGGGGNGTGTTAAATATATA
AATTTTGAAAGACGTAAACAAAATAGTTAACTATCTACTTATGATATTTAATAGTTTGGC
CAGGCATGGCAACTCATGCCTGTTGTAATCCCAGCGTATTGGGCGGCTGAGGTAGGANGA
TTGTGTGAACCCAGGCGTTTGAGACTGCAGNGAGCTATGGATCCTGCCTGGATGACAGGG

Table 1

CAAGACCCCAAGTCAAA
Sequence 5616
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATA
CCCAAAGGCTCTATTTCAGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTG
CATTCTAGAGACCTTAGAAAATGCAGAAAATTTCAAGAAAACATTTAAATTGTGCTCATA
GTGAAACTGAGAGGTGACCACTCTTAATATTTTGTGGCATAAGCATTCCAGTCTTTTATC
TTTCTCAAAGTTTCACATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGAT
TTTTTGTGACCACATAGTATCCTATTATATTGATAATACCATAATTTACCTAACCCATTT
TTATATATTTGGATTTTTTCCAATTCATCATTATTATGAATAATGGNGTATCTCAAGGGG
TTATTACTTTGCACTGCATTTCTTATGAAAGTATTGAGTAAAAGGAAGTAAAGCCCTCTC
AGAGTGTTTTGNAGGCTGGCACATTCACTCCATAATGCCTAGTGTTTGNTGCCACCAGTG
ATATATGAAGGGCCCACTGAAATGTACACCTTTTTGGTTTTNCTTTTTAAAATAAAAAAT
AA
Sequence 5617
AGTACTTCTAGAATTAATTAACGCGGGACTGCTAACAATTAGTCCATCACTATCCCCTCA
AGTCAAAATAATGCCCATCAGACCTCAGGGGCGGGGTGACTACCCAAGATAGCCATCTGA
ACGTGACACACGGACCCAATTTTTNCTGTACCTCAAGGTGGTGTAAAAGGGGCAACCATC
TGGTCATTTCTTCGAGTTTTTTTTATATTTTGTATAACTCCTGTGCACATAATAAAATAT
GTAAGCCTATTTTTCTGCTAATGTGTGTACTATCAGTTTGTTTTATGGACTCACCCCTAA
GGAGAAAAATGTAAATTTACCTACATGTGAAATTTAGTTTGGAGCTTGGCTGCCCGTGGG
ACCTAGCTAAAACTGGGTGGCCTGGG
Sequence 5618
AGTACTTCTAGAATTAATTAAGGCGGGAGAAGGAAAGAGAAAGTGGAATTAAGGGACAAG
AAAGAGGAAGTGGAATTAAGGGACAAGGGGAGAAAAGCTTAGGCGAATCAACGGATTGCA
ATCTATCATCTGCTAGGAATGAACAAGACAACATCAAATGAGGGAGCTGTCAGCTGGACC
ATACAAAAAGCTAAATGTACACAAAAGGTTTTTTTTTTTTCCTTTTAAATCTACCATACT
GCTTCAGTTCATTTCCAATGCAACAATCTACTCAACACCAAAAATGGTCATATCTATCAT
AAATACAGAAAGTCAGTTTTTAAAACTTATTTTTTTTAAGCTACAAGTCCTCAACACTCT
TTGTGTGTGTGGGTTATTATTTTTTTTTTTTTGAAAGTGGGGAGTGCTTAACTTTTCCCC
TTGA
Sequence 5619
AGTACTTCTAGAATTAATTAACGCGGGGGAAAACTGTNTTACTTAAACAAAATGTATTTT
AGGAANNTGCCTGTTTCAAGGGTTTATTACTGTTTTATAACTAANAGACTTGGGACTTTA
NTATACCGAAAAGGTGTCATTTCAAATGGGGGAAAATGAATTATTCACCCAANTGATCTT
GGGGACAACTGGGATAGCCNTTCANAAAAAAAGTGAAGCTGGAACACTATAACATGCTTT
ACCCCACAATAAATCACAGTTAAATGTAATAAAAAAAAAAAATAAAANACAANAAANNN
Sequence 5620
AGTACTTCTAGAATTAATTAACGCGGGCATTGTGTGCAGAAGACCTGGACTGGAATCTAA
CACTGTGAGTACTCCCCAGGATCCGTGTTCCTCTCTTTAGCCCAGGCATGCAGTTACATT
ACATTTTCCAACCTTCCTTGCAGTTAGCTACGATCACGTGACTGNATTTTTGGCCAGTGG
AATGTGTGTGGAAGTGATGTGGGCCAATTCCAGGCCTGGCCTATAAAAATCCCCCACTTT
TTGTTCTCTTTCTCCATCCACCATCTGCATGGAGAGCTCCCAGCACTAGAGGGAGAAAAA
GCCACCAGAGGGAAGGAGCCTGGGTCCCTGAATCACTGTGTAGACTACCTGCCAAACATA
CACCCTGAATTGTTATGGCAATAACAAATAAACTCCTAATGTGTTAAGCCATTTAAA
Sequence 5621
TTTTTTTTTTTTTTTTTTTTTTTTTTGAAATATGCCCACCCATTTCAGGTTGAGCCACGGA
TAAGGAGGGCTTAGCTCATGTCTCCTGTGGGAATTGAGGCATCTCAGGAAACAGTATAGA
GTTGGTNCAGTTAGAATGAGAAGAAGCCTGGGGAAAGAAACCAAGAGTGAGAAATGCGTG
GCTATTTTGACTTAGCTGGAGCAACCCTCTCATAACAGGCTGGGAAGTGGACCCGCGTTA
ATTAACGCGGGGGAAATTGATGAACAAACAAAGGTCATAGTAAAAGACANACTTTTGGGG
ATAAAAACAGAAACTCCAAGTACTGTATCAACAAATGCAAGTACACCACA
Sequence 5622
TTTTTTTTTTTTTTTTTTTTTTTTTTTNNGGAGGAGTANANAAATGACTAATTTTTTCATT
GGTGAGTAATATGCTACAAANACTCGTAAAATCATATACTTTTGGACCTGGAAAGTAGCT
TAAGGACCATCTGATTAAAATTTTAAGTTTTATTGATGAANAAATTAAGCTC
Sequence 5623
TTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTC

Table 1

AGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAG
AAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGTGCTCATAGTGAAACTGAGAGGTG
ACCACTCTTAATATTTTGNGGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCAC
ATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTGTGACCACATA
GTATCCTATTATATTGATAATACCATAATTTACCTAACCCATTTTTATATATTTG
Sequence 5624
TTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTC
AGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAG
AAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGTGCTCATAGTGAAACTGAGAGGTG
ACCACTCTTAATATTTTGNGGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCAC
ATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTGTGACCACATA
GTATCCTATTATATTGATAATACCATAATTTACCTAACCCATTTTTATA
Sequence 5625
TTTTTTTTTTTTTTTTTTTTTTTTTGAAATATGCCCACCCATTTCAGGTTGAGCCACGGA
TAAGGAGGGCTTAGCTCATGTCTCCTGTGGGAATTGAGGCATCTCAGGAAACAGTATAGA
GTTGGTACAGTTAGAATGANAANAAGCCTGGGGAAAGAAACCAAGAGTGANAAATGCGTG
GCTATTTTGACTTAGCTGGAGCAACCCTCTCATAACAGGCTGGGAAGTGGACCCGCGTTA
ATTAACGCGGGGGAAATTGATGAACAAACAAAGGTCATAGTAAAAGACAGACTTTTGGGG
ATAAAAACAGAAACTCCAAGTACTGTATCAACAAATGCAAGTNCACCACAATCAGN
Sequence 5626
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAAGAATCAACAGAC
TCTATATTTGATCACAAAGCAAAAGTTTAAGTGTATTACTTAAAATTTTAAGACAAAATC
TGGAATAATTATAACTAACACAAATTTTGAGGTAGAGGAAGAGAATTCTAGAGATAGGGG
AGATAAAATTTTCATCTTTGATAATGAGTAGACAAAAACACTACCTTTAACAAGGGAANA
ATTTAAAAAATTTAGAGAAGAGGAAATCATAAGNGGNTTTTAAAATTTATT
Sequence 5627
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAANAATCAACAGACTCTATATTTGATCACAA
AGCAAAAGTTTAAGTGTATTACTTAAAATTTTAAGACAAAATCTGGAATAATTATAACTA
ACACAAATTTTGAGGTAGAGGAAGAGAATTCTANANATAGGTGANATAAAATTTTCATCT
TTGATAATGAGTAGACAAAAACACTACCTTTAACAAGTGAAGA
Sequence 5628
NGGGGGGGGGGGGGGTAAGNTAAGNNNGNCCCNACTTTTTTTTTTTTTTTTTTTTGGGA
GGTTTCTATTTTTATTCAACTACCAAGCCAAACAGCCACAATTAATGGCAACATTTCAGC
CAACTCAAGNACCAGCTTTTTTCTTACCCCCCATTGGNAGAAACCGANTCAATTTAAAAA
AAAACA
Sequence 5629
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTGAGAGACAAACATGGGCCACATTTTTAAGACAAACATGGACCACAACCATGCTGAG
AGAACTTANAGNGAAGTTTACATGGCTATCTTTCTTAGTATTAGAAATTTTACCTGATAA
ACATCAAACATACGACCAANCATAGCATATAAAGCAGCTCTACAGATATTTTTCCTACTG
CCCAAAATATCATATAATGCNCATGTAGGTCACATGTGAGTAGGCAAGANATTCTGGAAC
ACAGAAGCAAGACAACAGGATCACAGCAATTTCAGTATGCTCTGCTTGNTAT
Sequence 5630
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
NTTTTTTTTAAANATTNAACTCTGATTTATTGGGGGGGTAAAGCATGTTATAGTGTTCCA
GCTTCACTTTTTTTCTGAATGGCTATCCAGTTGTCCCAAGATCATTTGTTGAATAATTCA
TTTTCCCCCATTTGAAATGACCACTTTTTCNTTNTTACTAAAGTCCCAAGTCTNTTAGTT
NTAAAACAGTAATAAACCCTTGAAACAGGCATTTTCCTAAAATACATTTTGTTTAAGTAA
GACAGTTTTCCCCCGCGTTAATTAATTCTAGAAGTACT
Sequence 5631
TTTTTTTTTTTTTTTTTTTTTTTTTTGCAAANAACCGTGCCTTTTATTGGGCACTGGCTCT
CTTTGAGCCCGGAGTCCCGCCCCCGCCCTCTCTCGAANAACTGGCCAGACTTTTTGCAAA
CGCCTTGAAGGGTANAATTAGCAGCGAGCTCTTGAAACTGCCTCTGGAGATGGAACTCAG
CGGAATTCTCGAAAAGAAGAGGGACATTAAAAAGACGGGTGCATGCACTGATTTCCAAGC
GCAGTTTGTCCATGTTAGTCTTGTACATGCTTGACTCCAGTCAGCCACCGTAGGCCCCGC
CTTAATTAATTCTANAAGTACT
Sequence 5632

Table 1

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGACCAGAGAGGCCCC
AAACTAGCAGCCTGTCCTCCTCAGTAGCCCCAGCATCCCTTCATCATTTTGTTGCCCTTC
TATGGGCCTAGTTTAGGTCTGAGAGGCATAGTTTTAAAATTTTTATTGTTATTTATTTAT
TCTANAGATAAGGTCTTGCTATGTTTCCCAGGCTGGTCTTGAACTCCTGGCCTCAAGCAA
TCCTCCTGCAGCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGTCTGGTC
AGACAGGCATAGTTTTACAAATATGTGGGTGGATAAATGCTGTCCAGTCTTACTTCATCA
CTTCTATCAATTGAATGCTTTTGGTTGGAAATAACAGAAAATCCAACTAAAAGTGACTTA
AACAAAGGAAATGTTATTATCTCATGTACCAGGAATTCTGGAGGTAGACTGGTTCAAGGG
TGGATTAATTAATTCTAGAAGTACTCTCGAGGGGGGGCCCGGTA

Sequence 5633

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTGAGGAGTNTANAAATGACTAATTTTTTCATTGGNGAGTAANANGCTACAAAG
ACTCGTAGAATCATATACTTTTGGACCTGGAAAGTAGCTTAAGGACCATCTGATTAAAAT
TTTAAGNTTTATTGNTGAAAAAAATTAAAGCNCNAAGAAAAGGGCTGTNACTTGGNCCNA
AGATCNCCANAAAGTNATTAACCTATTTGAAGCTTGANNGAAAACAGCCCAGATTCTCTN
GCTCAAAATTTTCAGCTGAAAACTACATTTGTANAATAAAAATAACTCACCATAACATTA
CAACAGAATA

Sequence 5634

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATA
CCCAAAGGCTCTATTTCAGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTG
CATTCTAGAGACCTTAGAAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGTGCTCAT
AGTGAAACTGANAGGTGACCACTCTTAATATTTTGNGGCATAAGCATTCCAGTCTTTTAT
CTTTCTCAAAGTTTCACATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGA
TTTTTTGTGACCACATAGTATCCTATTATATTGATAATACCATAATTTACCTAACCCATT
TTTATATATTTGGATTTTTTCCAATTCNTCATTAT

Sequence 5635

TTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTC
AGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAN
AAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGNGCTCATAGTGAAACTGAGAGGTG
ACCACTCTTAATATTTTGTGGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCAC
ATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTGTGACCACATA
GTATCCTATTATATTGATAATACCATAATTTACCTAACCCATTTTTATATATTTGGATTT
TTTCCAATTCATCATTATTATGAATAATGGNGTATCTCAGTGGTTNTTANTTTGCACTGC
ATTTCTTATGAAAGTATTGAGTAAAAG

Sequence 5636

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGACCAGAGAGGCCCCAAACTAGCAGCCTGTCC
TCCTCAGTAGCCCCAGCATCCCTTCATCATTTTGTTGCCCTTCTATGGGCCTAGTTTAGG
TCTGAGAGGCATAGTTTTAAAATTTTTATTGTTATTTATTTATTCTAGANATAAGGTCTT
GCTNTGTTTCCCAGGCTGGTCTTGAACTCCTGGCCTNAAGCAATCCTCCTGCAGNAAGCC
TCCCAAAGNGCTGGGATTACAGGCATGAGCCACCACGTCTGGTTANACAGGCATAGTTTT
ACAAATATGNGGGNGGATAAATGCTGTCCAGNCTTACTTNATCACTTCTATCAATTGAAT
GCTTTTGGTTGGAAATAACAGAAAATCCAACTAAAAGTGACTTAAACAAAGGGA

Sequence 5637

TTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTC
AGTANAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTANAGACCTTAN
AAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGTGCTCATAGTGAAACTGANAGGTG
ACCACTCTTAATATTTTGTGGCATAAGCATTCCAGTCTTTTATNTTTCTCAAAGTTTCAC
ATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTGTGACCACATA
GNATCCTATTATATTGATAATACCATAATTTACCTAACCCATTTTTATATATTTGGATTT
TTTCCAATTCATCATTATTA

Sequence 5638

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGATTACGTAAAT
AAATCTANAAATGAGTACTACNCTACATAAAGAGTAGGTTTAGCAATTTTATTTGNGTTG
CCAAATAATCTCCCTTTACTTTCACATATCCTTTCAAAGTAAAATAAAATAATTTATTTA
TAACCAAAAATTTATTTTTTAATACCAATNAGGAAAAAATTCAAATTCCAACAGTTTTCT
AAGGTTCACAAACCTTCAGGCTGAGTATCAGATATTAAAAGANAAATGCCATCATCCTTT
CTTCGTTTTTCTTTATTGGGCNCAGNCTGCTTTGCANAATTGTCATCTACTGNCTTACTT

Table 1

CGNTGGGAGCC
Sequence 5639
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATA
CCCAAAGGCTCTATTTCAGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTG
CATTCTAGAGACCTTAGAAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGNGCTCAT
AGTGAAACTGANAGGNGACCACTCTTAATATTTTGNGGCATAAGCATTCCAGTCTTTTAT
CTTTCTCAAAGTTTCACATAAACTTTNTCAAAGGCCATTAAATACTTTTCCATAGCCTGA
TTTTTTGTGACCACATAGNATCCTATTATATTGATAATACCATAATTTACCTAACCCATT
TTTATATATTTGGATTTTTTCCAATTCATCATTATTATGAATAATGGNGTATCTCAGNGG
TTATTACTTTGCACTGCATTTCTTATGAAAGTATTGAGTAAAAGGAAGTAAAGC
Sequence 5640
GGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTNG
GGACCAAAAAGGCCCCAAACTAGCANCCTGTCCTCCTCAGNAGCCCCAGCATCCCTTNAT
CATTTNGTTGCCCTTNTATGGGCCTANNTTAGGTCTGANAGGCATAGTTTNAAAATTTTT
ATTGGNATTCATTNATTCTAAANATAAAGGNCTTGCTATGTTTCCCANGCTGGTNTTNAA
CTCCTGGCCTNAAGCAATCCTNNTGCANCANCCTCCNAAAGNGCTGGGATTACAGGCATG
AGCCACCACGTTTGGTCANANAGGCNTNTTTCTACAAATATGTGGGTGGATAAATGCTGC
CCAGNCTNACTTCATCACTTCTATAAATGGGAANGCTTTTGGTT
Sequence 5641
NCCGCGGCGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTNACTNGAATTGTTGTTATA
GTGCTTCCGTTATTTATTTTTATTTTTTTTTATTATACTTTAAGTTTTAGGGTACATGTGC
ACAACGTGCAGGTTTGCTACATATGTATACATGTGCCATGTTGGNGTGCTGCNCTCATTA
ACTCGTCATTTATATTAGGTATATATACCNTGTTCATTGTACCCTTATCGACTTTGCAGC
ATGCTTATCCATCTAACTATTCATCTTTATTNGCCTTCGTTTTTTGAGTTCCCTTATTCA
TCCTAAAACAAAATATAATGCCTGACTCATAGTCAGACTTCACAGTATTTTTAAANGAAT
TACATTGCNTTGGGGGAAATATAAATAGTAATGTCCTTTTATAGAGGAAGTCTAAAANGA
AATTCTTGGGNGAATTGATAATCAAACATTTT
Sequence 5642
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATA
CCCAAAGGCTCTATTTCAGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTG
CATTCTAGAGACCTTANAAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGTGCTCAT
AGTGAAACTGGAGAGGTGACCACTCTTAATATTTTGNGGCATAAGCATTCCAGTCTTTTA
TCTTTCTCAAAGTTTCACATAAACTTTNTCAAAGGCCATTAAATACTTTTCCATAGCCTG
ATTTTTTGTGACCACATAGTATCCTATTATATTGATAATACCATAATTTACCTAACCCAT
TTTTATATATTTGGATTTTTTCCAATTCATCATTATTATGAATAATGGTGTATCTCAGTG
GTTATTACTTTGCAC
Sequence 5643
NCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTNGAGGAGTAGAGAAATGACTAATTTTTTCATTGGTGAGTAATATGCTACAAA
GACTCGTANAATCATATACTTTTGGACCTGGAAAGTAGCTTAAGGACCATCTGATTAAAA
TTTTAAGTTTTATTGATGAANAAATTAAGCTCAAGAAAGGCTGTTACTTGTCCAAGATCA
CAGAAGTNTTAACTATTGAAGCTTGANAAAACAGCCAGTTCTNTGCTCAAATTTCAGCTG
AAACTACATTGNATAATAAAATAACTCAACATAACATTNCAACAGAATAGTTTAAACTCT
TTCTAGTCAGNGGCAACTTAGGGTAGGGAAGATCCAAAGGGATTTTTAAACAAGTTTGTT
GAAATTNTNTAAGAAAATTA
Sequence 5644
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTNGGGATGCTCAACCTATAATA
CCCAAAGGCTCTATTTCAGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATANTTG
CATTCTAGAGACCTTANAAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGTGCTCAT
AGTGAAACTGAGAGGTGACCACTCTTAATATTTTGTGGCATAAGCATTNCAGTCTTTTAT
NTTTCTCAAAGTTTCACATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGA
TTTTTTGTGACCACATAGTATCCTATTATATTGANAATACCATAATTTACCTAACCCATT
TTTATATATTTGGATTTTTTCCAATTCATCATTTATTATGA
Sequence 5645
TTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTC
AGNNNAATTTATTGGTNTGGNGATTATAGCAGNGACNTAGTTGCATTGNTANAGACCTTA
NAAAANGCANGAAANNTTCANGAAAAACATTNAAATTGTGCTCATAGNGAAACTGAAAGG

Table 1

TGACCACTCTTAATATTTTGGGGGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTN
CACATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGNCNGANTTTTTGNGACCAC
ATAGTATCCTATTATATTGATAATACCATAATTNACCTAACCCATNTTTATATATTNGGA
TTT

Sequence 5646

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATA
CCCAAAGGCTCTATTTCAGTAGAATTTATTGGTTTGCTGATTATAGCAGGGACATAGTTG
CNTTCTAGAGACCNTANAAAATGCANAAAATNTCAAGAAAAACATTTAAATTGGGCTCAT
AGTGAAACTGAGAGGNGACCACTCTTAATATTTTGNGGCATAAGCATTCCAGNCTTTTAT
CTTTCTCAAAGTTTCACATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCNGA
TTTTTTGTGACCACATAGTATCCTATNATATTGATAATACCATAATTTACCTAACCCATT
TTTATATATTTGGA

Sequence 5647

CGACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTT
TTTTTTTTTTTTNGAAGAATCAACAGACTCTATATTTGATCACAAAGCAAAAGTTTAAGT
GTATTACTTAAAATTTTAAGACAAAATCTGGAATAATTATAACTAACACAAATTTTGAGG
TAGAGGAAGAGAATTCTAGAGATAGGTGAGATAAAATTTTCATCTTTGATAATGAGTAGA
CAAAANCNCTACCTTTAACAAGNGAAGAATTTAAAAAATTTAGAGAAGAGGAAATCATAA
GNGGTTTTTAAAATTTATTATACATATCGNGGTAAAGATAATCCAACAGAAAATGAGATT
TGAACAGACACTTCACAGGAGATAGACAAATGTCTCAA

Sequence 5648

TTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTC
AGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAN
AAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGTGCTCATAGTGAAACTGAGAGGTG
ACCACTCTTAATATTTTGTGGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCAC
ATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTGTGACCACATA
GTATCCTATTATATTGATAATACCATAATTTACCTAACCCATTTTTATATATTTGGATTT
TTTCCAATTCATCATTATTATGAATAATGGTGTATCTCAGTGGTTATTACTTTGCACTGC
ATTTCTTATGAAAGTATTGAGTAAAAGGAAGTAAAGCCCTCTCAGAGTGTTTTGTAGGCT
GTCACATTTCACTCCATAATGTCCTAGTGTTTGTTGCCACCAGTGATATATGAAGGTACC
CACTGAAATGTCACACCTTTTTGGTTTTCCTTTTTAAAATAAAAAATAAAAAAGACATTT
AACCATAT

Sequence 5649

NCGCTTTTTTTTTTTTTTTTTTTTTTTTGGTCTTTTCTGTATTTTTTCNTTTTTAAATCA
ACTAAAACAATTTGATGCTTAAAATAAAAGACAGGAAATATTTCCTGATGAGACTTTAGT
CGAGAATATANGATNTATTNCTGATCCCGNGGGNGCCGGGGTAGNATCAAGGNGGGCCGT
NGNGGTAGTGANAAANNGAATTGTTGCCCCACCAAGTTGGGGTTTCCGCCGAAGGGGTAT
CCCCGTTTTTCCTTCAAGACCTTCNAGGGGAAGGGNGNAGNCNCCTTGNNGCTTNGCTCC
TTGGNAACCCCCCGTGGGCCTTANGGNGGCACNCCCCANGTANGTCTTGGGGGNGCNTTC
NCCAACNTANGNGNCCCNTNGNACNCCANNGTGGGTCCCCAGGGGTGNTAANGTAANAGT
AANCTGNGNGANNTGNTANTGNAAGTGGCAAATNGTAAAGNAAANGGGGGCTGGGGGGNG
GCCTTTGGGNCCGGGGTCTTTGNGNGGGGGCCCTTTTNGGTTAAAATTTT

Sequence 5650

ACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTGGAGGAGTAGANAAATGACTAATTTTTTCATTGGNGAGTAATATGCTAC
AAAGACTCGTANAATCATATACTTTTGGACCTGGAAAGTAGCTTAAGGACCATNTGATTA
AAATTTTAAGTTTTATTGATGAANAAATTAAGCTCAANAAAGGCTGTTACTTGTCCAAGA
TCACAGAAGTNTTAACTATTGAAGCTTGAAAAAACAGCCAGTTNTNTGCTCAAATTTCAG
CTGAAACTACATTGTATAATAAAATAACTCAACATAACATTACAACAGAATAGTTTAAAC
TNTTTNTAGTCAGGNGGCAACTTAGGGGTAGGGAAGAATCCAAAGGGGATTTTT

Sequence 5651

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTGAAATATGCCCACCCATT
TCAGGTTGAGCCACGGATAAGGAGGGCTTAGCTCATGTCTCCTGTGGGAATTGAGGCATN
TCAGGAAACAGTATAGAGTTGGTNCAGTTAGAATGAGAAGAAGCCTGGGGAAAGAAACCA
AGAGTGAGAAATGCGTGGCTATTTTGACTTAGCTGGAGCAACCCTNTCATAACAGGCTGG
GAAGTGGACCCGCGTTAATTAACGCGGGGGAAATTGATGAACAAACAAAGGTCATAGTAA
AAGACAGACTTTTGGGGATAAAAACAGAAA

Table 1

Sequence 5652
CGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTGGGANG
CNCAACCTNTAATACCCAAAGGCTCTATTTCAGTAGAATTTATTGGTTTGCTGATTATAG
CAGNGACATAGTTGCATTCTAGAGACCTTANAAAATGCNGAAAATTTCAAGAAAAACATT
TAAATTGNGCTCATAGTGAAACTGAGAGGNGACCACTCTTAATATTTTGGGGCATAAGCA
TTCCAGTCTTTTATCTTTCTCAAAGNNTCACATAAACTTTCTCAAAGGCCATTAAATACT
TTTCCATAGCCTGATTTTTTGNGACCACATAGTATCCTATTATATTGATAATACCCGTGG
TTTACCCTAACCCATTTTTTATANATNTGGGAATTTTTTGCCAATTTCATCATTATTATG
GAAATAAATGGG
Sequence 5653
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGACCAGAGAGGCCCC
AAACTAGCAGCCTGTCCTCCTCAGTAGCCCCAGCATCCCTTCATCATTTTGTTGCCCTTC
TATGGGCCTAGTTTAGGTCTGAGAGGCATAGTTTTAAAATTTTTATTGNTATTTATTTAT
TCTAGAGATAAGGTCTTGCTATGTTTCCCAGGCTGGTCTTGAACTCCTGGCCTCAAGCAA
TCCTCCTGCAGCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGTNTGGTC
AGACAGGCATAGTTTTACAAATATGTGGGTGGATAAATGCTGTCCAAGTCTTACTTCATC
ACTTCTATCAATTGAATGCTTTTGGTTGGAAATAACAGAAAATCCAACTAAAAGTGACTT
AAAC
Sequence 5654
GTGGCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTTNNNGGGAGAGACAAACNTGGGCCACNT
TTTTAAGACAAACATGGACCACAACCATGCTGAGAGAACTTANAGTGAAGTTTACATGGC
TATCTTTCTTAGTATTAGAAATTTTACCTGATAAACATCAAACATACGACCAACATAGCA
TATAAAGCAGCTCTACAGATATTTTCCTACTGCCCAAAATATCATATAATGCACATGTAG
GTCACATGTGAGTAGGCAAGAGATTCTGGAACACAGAAGCAAGACAACAGGATCACAGCA
ATTTCAGTATGCTCTGCTTGTTATAGGAAATCCCCAGAACATTCTCCAATTACTGAACAA
AAAAAGCAATAAAACTCAGATTNGTCTGCCTGGGGAGAAATAAGCACAATTTGAAAGNGA
ATAGCAAAACAAAGCTNTCTGGTGAAAAGACATTCTTACTTGGAAGGAGTTAAAATTTTG
CCCC
Sequence 5655
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTNTNNNTTTACATTTAACTCTGAT
TTATTGTGGGGTAAAGCATGTTATAGTGTTCCAGCTTCACTTTTTTTTCTGAATGGCTATC
CAGTTGTCCCAAGATCATTTGTGAATAATTCATTTTCCCCCATTTGAAATGACACCTTTT
CGTATACTAAAGTCCCAAGTCTCTTAGTTATAAAACAGTAATAAACCCTTGAAACAGGCA
TTTTCCTAAAATACATTTTGTTTAAGTAAGACAGTTTTCCCCCGCGTTAATTAATTCTAG
AAGTACT
Sequence 5656
CGCTTTTTTTTTTTTTTTTTTTTTTTTTNGGGGGGAAGATGAAGAAATTTCACTCAAGTATT
TTGTTACTTTAAGATTCAATGCTGGACACTAGACCAGCTATAACATTTTCAGATAGAGTG
ACTTCATGCGTGAAATGATCACATACAATGAAGAGGTTTTAAAAAATACAGATGACATAA
CTTGTTCAGTTGAAGAAAATTAAAATACTGATATAAACTAAATCATTCTCCTCTTCATTT
TAGGGGGATTTTTCTCTGCAATTGTACTGATTTATGACTAGAAAGCTGAAGACTGATTTG
AGCCTCTTTAGCAATACTCTATTTCACCATTTATCTTCCAAAGAATTATGGCTATTTTAT
TTCTTCCAATGAAGCTGGAAAATTATAATATGCCAGCAGATCAGTAGAAAATGTNAAAAA
TATTAGTAGTTACCCTTTTTAGATCCAACTTACCTGTAGTGGAAATAGCCAGCAATGCAT
TCTCTATTTGGAGGGCCAAAACATAAAAACCCTGGCTTCATAAACATAGAGGTATTTAAA
AAATCTCANAAGTTTAATGNGGTANACATTTGCCTAANAATTTCTGGGAGGTCTCAACAC
TCANGTCTNGATTTTTAAAAAACCNGAAAAAAAATTTT
YS
Sequence 5657
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTANANGGAGTCTTACTCCGNCACCCAGGCTGGAGTGNGGNGGTGTNATCTCAG
CTCACAACAACCTGACCTCAGGTGATTCACCCNCCTTTGTCTCCCAAAGTGCTGGGATTA
CAGGCGTGAGCCACTGCGCCCGGCGTCTTTGAATTTTTTAAACTGAANTTTAATTGCCTT
TGAGTTTGATCATTCACTATTTGCCATTTGTATTTCTTTTGTTAATTATGATGCTCANGC
TCTAATTTCATAAGTGGAAATTTAATGGATTAACATATAACACCCACTATCACCCTGCCT
NAATTAATTCTANAAGTACTCTTNAGGGGGGGCCC
Sequence 5658

Table 1

ACTTCTTAGGGCGAATTGGAGCTNNCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTGGGGGATTCCATTTNTATGAAATGTCCAGAACAGGGAAAACCTATTTTAG
ACAACAGAGACNCAAAGTCGATCAGCAGTTGCCAGGGGAGGAGGAAGACGGGAGGGGAAA
TGATTGCTTCACGGGGTGATGACAGAATGTTCCANAACGTGACAGAGGNGGNGCCTACNC
AACTTTCTGGATGTACTAAATGCCGCTGATTGTTCACTTTCAAGNGATTGATTTTTAGGT
TATTTGAATTTCATCTCAATTAAAAAACCCAAACACGCAAACTGNTCCCGCCAGCTNAGC
CCCGAGCAGACGGCGCAGCCCGTGGAGGATGCTGAGCCACCCAGGCTTNTCCCCGCCTTA
ATTAATTCTA

Sequence 5659

GAGCCACGGANAAGGNGGGCTNAGCNNANGNCTCCGGGGGGAANNGAGGCATCCCAGGAA
ACAGNANAGAGNNGGNACAGNNAGAANGAGAAGAAGCCNGGGGAAAGAAACCAAGAGGGA
GAAANGCGGGGCNATTTNGACNAAGCTGGAGCAACCCTCTCAAAACAGGNNGGGAAGGGG
ACCCGCGNAAAANAACGCGGGGGAAATNGANGAACAAACAAAGGNCAAAGNAAAAGACAG
ACTTTGGGGGAAA

Sequence 5660

AATTGNAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGNCNAAA
AAAAAAANTTAAAAGGAAAAAANCNAANAAAAATTNNGNANGGGAAAAACCNAACAAGGG
GGCCNCNCAAAAAAAANCTNANTTNGGNNAGNNAAAAANCCCCNAAGANNCNCCCAGGNA
ANANCTNNANGGNCNCCNCNAAANTTAAANAAGGGNCCCCAGGAAAAAAAAAATNCCAAN
ANCCCCNNGNNAAAAAAATNNAAAAANNCCCNCNNGGGGGGGCCCNGANCCCAANTTNTG
NCCCCTTAANGGNGGGGAAAANGCCCCCNNGGNCNAAAAANGGNNAAAGCTNNNCCCCGG
GNAAAAAAA

Sequence 5661

GGCCGCTTTTTTTTTTTTTTTTTTTTTGTTTTNANAAAGGGGCNTNAAGAANATAATTCC
TTGGAAGGAAANATCATTTTATCNAAGCAACAGNAACATCTGAAANACCCTTTTTTCCCC
ATGGAGCNACATCTCNGTNCCAGATNATNAAGGGTAAAACCAGCAATCCAATCATTTTTN
ANCCTGGAAAACAAAGNCTAATCAAANATTTCCCTGGGGGANANAATTGGAANGGAANAA
TTTCATAAACATTAAAGCNCCCCGNGTNAATAAATTCAANAAGTACNCTCGAGGGGGGGC
CCG

Sequence 5662

CTACTTAGGGCNATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTT
TTTTGGAGACGGGGTTTTGCTGTGTTGGCCGGGCTGGTCTCCAGCTCCTAACCGNGAGTG
ATCCGCCAGCCTCGGCCTNCCGAGGNGCCGGNATTGNAGACNGACNATCGTTCACTCANT
GCTCAATGGTGCCCAGGCTGGAGTGCANTGGCNATGATCTTGGNCTCGCTACAACCTTGC
ACCTTCAATNCGANCTGCCTTGGCCCCCCAAAGTGCCGA

Sequence 5663

AGTACTTCTAGAATTAATTAACGCGGGTTNTCATACANNAAGTNCTCAAATTTTTCTNTC
CATCTNTCCACCTGCTTTTNGAATATTGGNGCATTTTNCAATAAGNTCTTCNCTTCATGG
TCCAAGATAAACGTAAACAATTNCCAAGGTTNCATGCATCCTCATCTTNACCCCACACTT
TAAAACTATCATTTCTAGTNCACCCCTGANATTTGATCTGATTGGACTAGCGTTGATCAA
GTGTNCACCCCTTGAACCCATCTCTGTGGCCAGGAAAAAGGAACGATANGCTAGGTCATA
TACTCCA

Sequence 5664

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTGGGGCCCGGGCTGGANTNNNNTGNAANNAATNTGACTNACTGCAACCT
GCACCNCCCATNTNCAANCTNNTANGAAGCCTCACCCTCCTGANTNNCTGGNATTACAAG
CACCCGCGTTAATTAATTCTAGAAGTACT

Sequence 5665

TCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGAAGGCAC
CTACAAAACGAAAGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGC
TCANTCATTTTCANAAAGGTTTTTCCAATTATCATTTTAGAGATGAAGGAAACTGAAGCT
CAGGGAGGCTAGGAAACTTATCCAAAGCCTNTTAANAGGCTATGTTAGTCANACTGGGCT
AACAGCTGTAACAACCCCANAATTTAAATGGCTTAACACATTAGGAGTTTATTTGTTATT
GCCATAACAATTCAGGGTGTATGTTTGGCAGGTAAGTCTACACAGTGATTCAGGGACCCA
GGCTCCTTCCCTNTGGTGGCTTTTTNTCCCTCTAGTGCTGGGAGCTCTCCATGCAAATGG
TGGATGGAAAAAGAAA

Table 1

Sequence 5666
NNCGCTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATTCTGTTCCCCTTCTGATAATACAGT
ATAAGAATATAACAAATAGATATTTAATTCCCCTTAAATATGTGNGGATATTTTCTGAAT
GGNCTAAGCATNTCTTACTGNGAAGTCATTTCTGCAAATGAACAAACTCATTCATTATGA
AGTAATTCTTACTAGTGTCTCTCTGAAAATGACTTTTTTTTTTTTTANCTTTAATCTCTTA
CCTCCAAATTCCAAAGGNNCATNTTACAGCTCTTATGAATGTCCTGAAGCATGCTAGGGG
AGTTATTTTGCTGCCTTAACCCTTGGGATTAGAANCTTTGTATAGTANTATATTTAATGA
ATGTTTATAGGGCTTATGATNAAACTTGGTAAATAAGCTNTAAAAATGAA
Sequence 5667
CTAAAGGGANTTNAAGCTGGGGTNCCGGGCCCCCCCTCGAGAGTACTTCTAGAATTAATT
AAGGCGGGGGCNCAGGACTGTACTTTTGGTAGCGGTGCGGGGCCGCCCGCGGACTTTAGC
CCTGCATAGAGATGGGTAGACCCTAATTTGGAACAGCCATTGACTGGGCACAGGCCAGCA
CTTTGGGAGGCCGAGAGGCCGAGGCAGGAGGATCGCTTGAGGCCAGGAGTGCCAGACTGC
GAGACTAGCCTGGGTAACATAGTGAGACCCTCTCTTCAAAAAAAAAAAAAAAAAAAAAAA
AGCCTGTCACGGTGGCCTGCGCCTGTACCCCAGCTACTCGAGAAGGATCGCCTGAGCCCA
GTGAAGCTGCAGCGAGCTGTGAGGATGCCACCGCACTCCGGCCTGGGCTAAAA
Sequence 5668
CGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTNNNGNNANGCCCAACCTNTNATANCCAAA
GGCTCTATTTCAGTAGAANTTATTGGTTTGCTGATTATAGCAGNGACATAGTTGCATTCT
AGAGACCTTANAAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGNGCTCATAGTGAA
ACTGAGAGGNGACCACTCTTAATATTTTGNGGCANAAGCATTCCAGTCTTTTATCTTTCT
CAAAGTTTCACATAAACTTTCTCAAAGGCC
Sequence 5669
TTAGGGCGAATTGNAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTT
TTTTGANATGGAGTTTNACTCTTGTTTGCCCAGGCTAGAGTGCAATGGCAGGATCTCAGC
TCACTGCAACCTCTGCCTCCCGGGTTCAAGTGANTCTCCTGNTTTATCCTCCCGNGGTAG
CTGGNATTACAGGCNCCCGCCTTAATTAATTCTAAAAGNACTN
Sequence 5670
TAATTAACGCGGGGCACTTGATGAAGAAGACGCNGCCATCCCGGCACACCCCGTAGGACC
AATGCTCAGGCCAAAGGTGTCCAAACTATACAGACCCACAGAATCTAACANCAGATGTCT
CAATATTCCTCGTCCTANAACTCTCAGAGGATCCANAACTACAGCNCGGTCCTCGCTGGG
CTGTTCCTTGTCCATGTGCCTGGTCATGGTGCTGGGGAACCTGCTCATCATCCTGGCCGT
CAGCCCTTGACTCCNANCTTTCACACCCCCATGTACTTCTTCCTTCTCCAACCTTGTCCT
TGCCTGACCATGGTTTTCAACCTCCAACCATGGTTCCCNAANGANTGATTTGGTGGGACA
TT
Sequence 5671
CGGCGAATNTTCTCCCCGCGCCGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTT
NGAGGAAGGTTCCTACAAAACGAAAGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTT
ACAAATATTAGCTCAGTCATTTTCANAAAGGTTTTTCCAATTATCATTTTANAGATGAGG
AAACTGAANCTCAGGGAGGCTAGGAAACTTATCCAAAGCCTNTTAANAGGCTATGTTAGT
CANACTGGGCTAACAGCTGTAACAACCCCAAAATTTAAATGGCTTAACACATTAGGAGTT
TATTTGTTATTGCCATAACAATTCAGGGNGTATGTTTGGCAGGTAGTCTACACAGNGATT
CAGGGGACCCAGGCTCCTTCCCTCTGGGGGCTTTTTCTC
Sequence 5672
AGTACTTCTAGAATTAATTAACGCGGGCATTGTGTGCAGAANACCTGNACTGGAATCTAA
CACTGNGAGTACTCCCCAGGATCCGTGTTCCTCTCTTTAGCCCAGGCATGCAGTTACATT
ACATTTTCCAACCTTCCTTGCAGTTAGCTACGATCACGTGACTGCATTCTGGCCAGTGGA
ATGTGTGTGGAAGTGATGTGGGCCAATTCCAGGCCTGGCCTATAAAAATCCCCCACTTTT
TGTTCTCTTTCTCCATCCACCATCTGCATGGAGAGCTCCCAGCACTANAGGGAGAAAAAG
CCACCANAGGGAAGGAGCCTGGGTCCCT
Sequence 5673
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTT
TTTTTTTTTTTNACCGGGTGTGTGGCTGGGGGTGCAAANAGGCTGTGATGTTGCTGGGCA
GTGTGGGTCTGGGCTAGGGGTCTNTTGCCAGCTNTGACACATCCACCCCTAGGCGGAGGC
CCACAGCCGGAACCATGGGGTCAGGCTCCACCGGGGAGGCTGATGGATGCCCTGGCTCTT
CCTGGGCCCAACTCGACCCTGCTTGCTCCCAAGGGGCTTCTCACCTCTGTGCTAGGGGTC
CACAACACTGGCTTTCCTGCTCCCGATACTGCCTGGCTGCTTGGATGGTGTTTTCTGGAG

Table 1

GAAGTCAAAAAATCCTCTGCACCAAAAAAATCACCGGTCTTTCAGGTTGGCAAACAAGGA
AATGTCATTTTGCTTTT
Sequence 5674
TAGGGCGAATTGGATTTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTGANATGGAGTTTCGCTCTGTTGCCCAGGCTGGAATGCAGTAGGAGCGATCTCGGC
TTACTGCAACCTCTGCCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTTCCAAGTAGC
TGGGATTACAGGCGTGTACCACCACAGCTGGTTAATTTTTTGTATTTTTAGTANAGACTG
GGGTTTCACCATNTTGGCCANGCTNGGTCTCGAACTCCTGACCTCAAGTGATTTCCCCGC
CTTGGCCTCCCAAAGTGCTGGGGATTACACGCATTGAGCCACCACGCCCTGCCAGAGGCT
CTGAGAATTCTTATAGCNAAAGTTAATTTTATTGACATAAGCTTATAACTAATGGAGGTC
AAAACTACAAAATTAAAAA
Sequence 5675
TAGGGCGAATTGGAGNTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTGTGTTTCAAT
AAAACTTTATTTACAAAAACAGGTAGTGGGCTGGATTGGCCAACTTCTGATGAATAGCAT
TTCTTTATAAATTCTGAACATGAGTACTTTAAAAAAATGTAGCAAATATCTTCTACTATT
ATGTGGTTCATCTTTTCCACCTAGTGTATCATATTTTTGATGAACAGAATTTCCTGTTTT
GATTTTTTTAAAATAGTAAACAAGATTTGCTGATCCTTAATACCTGCCTGGGTTTATTTC
CCATCTTGTCTTCAGTATGATCTAGGCCTTCTGGAAGTTGAATGGGGGAGCGTCTAACAA
ATAGCTACCTAATACCTAGACAGATGACATCATCTCCGTGTGCAGGTAGGGACATTAGAT
GGTTTCTCTAGG
Sequence 5676
AGTACTTCTAGAATTAATTAACGCGGGTCCAGGTCTCTGAGTCCATTCTTTGGGTTTGGA
CAGGTAGGTTTGTTTCTCACAATACCAGGTATAATACCAGTAGAATGTTTCATATAATTT
AACAAGTTCATTATAAAATGTACTTGAAATTGCAAAGAGCCACAAAAAAAACCCAGACAA
TATTGATGAAGAAAAGACGAAGTCAGAGGACCTATACTACAAGATATCAATATAAATTAT
AAAGGTACCATAATTAAAACTGTGGAACTGGAGTAAACATGGACAAGTAGACCAATGTAG
TTAAAAACAATTCTGAAAAAGACCCACGCATATATAGATGCTTGATTTATTACCCATGTT
GCTACCTATAAACAAGGGGAAAACTGGTT
Sequence 5677
AGTACTTCTAGAATTAATTAAGGCGGGCGCCTGTAATCTCAGCTACTTTGGAGGCCGAGG
CAGGAGAATTGCTAGAACCCAGGAGGCAGAGGTTGCAGTGAGCTGAGATCGCGCCACTGC
ACTCCAGCCTGGGAGACAGAATGAGACTCCATCTCCAAAAAAAAAAGAAAGAAAGAAAGA
AAGAAAGAAAGAAGGCTCTATTTTGATACTGGGAGCCTAAACTGAATGATTCTGGAGAAA
TTCACAGATGGGGCTGAGGCTCACCTTCATGACAGCTGTATCAAAGGCCNAAATTTCTAA
GGCTCAGGAAATCACTACAATAAGCCTANCAACAGCAATGTGATACCTNTCCAAGCATTT
TGCAACCTTAACAT
Sequence 5678
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTT
TTTTGGGCTGAATCAGGAAACATTTATNCTTCCCCATAAATTTAAATGGAGGTGAAACTG
NGAATATGAAGCAAAGAACATTTATCTCACAAGGTAACTCTNAATTNTTTTAATANCTGA
AACCANANACATTGTACAACACTTACNGCATTCACACAACACTATTTTCAAAATAGGNTT
TTGACCCCTAAAAATGAAAATTCTTAGCGACAAGCTTTAGATATGAAACTTAGCCCAGCA
GGGTATTCACTTTGTCACAAAAAGCAACTACCGACAAATAGTTTTTCCCTCTCCCCGACA
CAAAAACTGAAATTACAGACTTTTAAAAGCAGAAAAAATTTTCTCCAAAAT
Sequence 5679
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTCCTTTTTTNACAAAAGTTTATTCTTAAANGTNCAANAGCTNCAAAACAAC
NCTTAATTCCAGCTATACNTGGNAAAANATGTTATGGCAGGGAATAAGAGAGGTTTNAAT
NCANAATGNAANTNNAAGGGGNCACCAATTATTNTNAGGGCNCANNGGAAANAGCTTTAC
TNTTTTGCCANNATTTTTTTAAATTCCACCTGNGGCCAAGGGCCCCTTCCCCCGCCTNAA
TNAATANTAGAAGNACTTTNGAGGGGG
Sequence 5680
AGTACTTCTAGAATTAATTAACGCGGGGGAGGGAGGTCACGGCGTAAAGGTGCAGCTGCC
GCCACCGCCGCTTCTGCAAGGTCTCAGGGACGGGCTGCAGCCATGTCCTATTGCCGGCAN
GGAAGGGAAGGATCGAATCATATTTTGTNACCAAAGAANATCATGAAACTCCAAGCAGTT
GCATAATTGGTGGCTGATGACCCCAACGATCCATACNAGGAGCATGGATTGATACTGCCA
AATGGAAACATTAACTGGAACTGCCCATGCCTTGGGGGGAATGGCCAGCGGTCCCTGTTG

Table 1

GAGAACAAGTTTAAAGTCANCCCTTTT
Sequence 5681
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTGGGGCGACCTCGGAGCATAACCCAACCTCCGAGCAGTACATGCTAAGACTTTACC
AGNCAAAGCGAACTACTATACTCAATTGATCCAATAACTTGACCAACGGAACAAGNTACC
CTAGGGGAAACAGCCCAATCCTATTCTAAGAGTCCATATCAACAATAG
Sequence 5682
CCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTNGGGTTCTCTTTTCCCAAAAANACTTCCATTTAAAATAGNCANATGAAAGCCAA
TCACCAANAANGGANATTGACNNACATNCNTANGAAAAAAGCTNCCGTACCCNTCCCACC
NCCCCAAAGGGGGNGGATTTNAGGTTTTGNTTATTTTNTTTTAAACNAANGGNNAAAANA
CNGACCCCCCCCGGATGACNNCCCANAGGGAAGGGATTTAAGGGCNGCCCCCATNAATTTN
TTNAGGCCNCNACNGCTACTTCCNCCTNTTGTATCTGGATTTAAANTTAAAGGTNCCNCC
CCGNCTNTGGGGGGGCAAGCCCAACTTGGTTTCCTTTNT
Sequence 5683
AGTACTTCTAGAATTAATTAACGCGGGGGTCANAAGGCTGGGCAACCATGGNGTNCTATT
TCGATGAACACGACTGCGAGCCGTCGGACCCTGAGCAGGAGACTGCGAACCATACATGCT
GNTTGGAAGCTTCGCAAGGGGTCANCTTTTTTCAATNAGGGAATGNGAACTTTTTGAAAA
TTACTTTTGGGGGGGTTT
Sequence 5684
TTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTAGGATNGCAATAAACAGCTTTTATTCTTTTATCANANACACGATCTANCTTTT
TAGCCCAGGCCGGAGTGCGGGGGCATCCTCACAGCTCGCTG
Sequence 5685
CCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGAAGGCACCT
ACAAAACGAAAGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGCTC
AGTCATTTTCAGAAAGGTTTTTCCAATTATCATTTTAGAGATGAGGAAACTGAAGCTCAG
GGAGGCTAGGAAACTTATCCAAAGCCTCTTAAGAGGCTATGTTAGTCAGACTGGGCTAAC
AGCTGTAACAACCCCAGAATTTAAATGGCTTAACACATTAGGAGTTTATTTGTTATTGCC
ATAACAATTCAGGGTGTATGTTTGGCAGGTAGTCTACACAGTGATTCAGGGACCCAGGCT
CCTTCCCTCTGGTGGCTTTTTCTCCCTCTAGTGCTGGGAGCTCTCCATGCAAATGGTGGA
TGGAGAAAGAGAACAAAANGTGGGGGATTTTTATAGGCCAGGGCCTGGAATTGGCCCACA
TCACTTCACACACATTNCACTGGCCAGAATGCAGTCACGTGAACGNAGCTACTGCAAAGG
NAAGGTTGGAAAAT
Sequence 5686
GCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAG
GCTCTATTTCAGTANAATTTATTGGTTTGCTGATTATAGCANCGACATAGTTGCATTCTA
GAGACCTTAGAAAATGCANAAAATTTCAAGAAAAACATTTAAATTGTGCTCATAGTGAAA
CTGAGAGGTGACCACTCTTAATATTTTGTGGCATAAGCATTCCAGTCTTTTATCANTCTC
AAAGTTTCACATAAACTNTCTCAAAGGCCATTAAATACTCTNCCATANCCTGATTTTTTG

Sequence 5687
ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTAGGATTGCAANAAACAGCTTTTATTCTTTTATCANAGACACGATCTAGCTT
TTTAGCCCAGGCCGGAGTGCGGNGGCATCCTCACAGCTCGCTGCAGCTTCACTGGGCTCA
GGCGANCCTNTCGAGTAGCTGGGGTACA
Sequence 5688
GGAAGATGGAATCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGCATGATCTCAGCTCAC
TGGAAGCTCTGCCTCCCAGGTTCACACCATTCTCCTGCCTCAGCCTCTCAAGCAGCTGGG
ACTACAGGCGCCAGCCGCCATGCCTGGCTAATTTTTTTTGGTATTTTTTAGTACAGATGG
GGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCTGCCCACTTCA
GCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCATGCCCGGCCGATTTCACCTTTC
AATGGCAATTACTATAAGACAGGAAAGTTATTTATTTTTATATATTTACCTAATTTTAAG
TTACCTTATACAACCCTCATTAATAGTCTGTTAGAACTAGAATTTAAACTCTATGTGAAT
ATGGACCTTATTTAAACAATGTATCCNTAGCACCTANACAATGCCTAACCTGTCACATTA
ACTTAATAAATATTNAATTATATTTTTNGGNNATTNATTTTTTTTGAACAGAACTNTTGC
TTTTGCACCCAAGCTGGAATGTAATGGGTGCCNACCTGGTNACTGNAATNTCTGNCTNCC

Table 1

AAGNTCAAGCAGTTNTTTTGTNTAACTTNCCAAANNANTGGGGATTAAAACACCCCCACC
NNCCCANNTNAATTTTGNATTTTAAGNAAAA
Sequence 5689
AACTCTGATTTATTGNGGGGTAAAGCATGTTATAGTGTTCCAGCTTCACTTTTTTTCTGA
ATGGCTATCCAGTTGTCCCAAGATCATTTGTTGAATAATTCATTTTCCCCCATTTGAAAT
GACACCTTTTCGTATACTAAAGTCCCAAGTCTNTTAGTTATAAAACAGTAATAAACCCTT
GAAACAGGCATTTTCCTAAAATACATTTTGTTTAAGTAANACAGTTTTCCCCCGCGTTAA
TTAATTCTAGAAGTACT
Sequence 5690
AGTACTTCTAGAATTAATTAACGCGGGTGATCAAGTACATCAAAGACAAATACCCTAATC
TCCAAGTCATTGGAGGCAATGTGGTCACTGCTGCCCAGGCCAAGAACCTCATTGATGCAG
GTGTGGATGCCCTGCGGGTTGGGGCATGGGGAAAGTGGGCTCCATCTTGCATTACGCANG
GAAGTTGCTTGGCCCTGTGGGCCGGCCCCAAGCAACAAGCAGTTGTACAAGGTGTCAGAG
TATGCACGGCGCTTTGGTGTTCCGGTCATTGCTGATGGAGGAATCCAAAATGTGGGTCAT
ATTGGCGAAAGCCTTGGCCCTTGGGGGCCTCCACAGTCATTGATTGGGCTCTCTCCTTGG
CCTGCCCACCACCTGAGGGCCCCCTGGGT
Sequence 5691
GACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTT
GAGACAGAGTCTCACTCTGTCGCCCAGGCTGGAGAGCAGTGGCGTGATCTCAGCTCACTG
CATGCTCCGCCTCCTGGGTTCACGCCATTCTCCCACTTCAGTCTCCTGAGTAGCTGGGAT
TACAGGCGTCCACCGCCACACCTGGCTAATTTTGTTTTTGTATTTTTAGTAGAGACAGGG
TTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACTTNATGATCCGCCTGCATCAGC
CTCCCAAAGTGCTGCGATTACAGGCATGAGCCACCGTGCTCGGCCAGCTCTCTNTTAAAT
GTAGCAGCTGGAAACATTCTTTTTGTTTGATTTTNTGCTGGTCCCGCTGTTAATTAATTC
TANGAAGTACTCTCGAGGGGG
Sequence 5692
AGTACTTCTAGAATTAATTAATGGCGGGTTAACTGCTTGAGTCCAGGAATTCGAGACCAG
TCTAGTCTAGGCAACACAGCAAAACCCCATCTCTATAAAAATAAGCCAGGTATGGTGGCA
CCGTGCCTGTAATTCCCACTACTTGGGAGGCTGAGCTGAGAGGGTCGCCTGAGCCTGGGA
GGTCAAGAATGCGTAAGCCGTGATTGTACCACTGCACGCCAGCCTGGGTGAGACCCTGTC
TCAAAAAAAAAAAAAAAANTAAANAAANAAAAAANGNGGCCGCCACCCGNGGTGGNGCTCC
AATTCGCCCTANTAGTGAGCCCTTNTTTACGCCGCGCTCAACTGGCCCGNTCGGTTTTCA
ACCNTCNTGACTGGGAAA
Sequence 5693
CACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNAANAANAAANCTNCTT
TNAANACTTNGGGGGGANCCCCACAGGAAAAAAAAACNCNGGNAAGGGGNAACCCCCCCN
CCCCCCGGGAGNGGCCCAGGGGGAAANAGGCTACCTGGGGGGAAGGAANCNCAAAAGGGN
CCCNNTGCAAACTCAGGGCAAAGGGA
Sequence 5694
CGGCCGCTTTTTTTTTTTTTTTTTTTTNTTTTTGANACACAAACTTTGGCCACATTTTAA
AGACAAACATGGACCNCAACCNTGCTGANANAACNNANAGNGAAGTTTACATGGCTATCT
TTCTTAGTATTANAAATTTTACCCTGGAAAAAACATCAAACATNCCGACCCAACATTANC
ANATAAAGCAGCTCTACAGANATTTNCCTACTGCCCAAAATATCATATAANGCNCATGGN
GGGCACATGNGAGTAGGCAAGAGATTCTGGAACACAGGAAGCAAGACAACNGGATCACAG
CAATTTCAGTATGCTCTGCTTGGTATAGGAAATCCCCAGAACATTCTCCAATTACTGAAC
AAAAAAAGCAATAAA
Sequence 5695
AGTACTTCTAGAATTAATTAACGCGGGGGNAAAAAAAAANAGANAAGAAAGCGCCTTCAAG
GCCATCTGTTTCTCGTGCTACTACCCTTTATGGAAAGACAAATCTNCTTCCCCTCCCTGT
CCTNACTTGCTTCTACATTCCCNTANGGCTGAGTNCCTCTATNATCAGCGTGCCCTGCCT
CNGGGCCTTGTGTNGCANGGCCANGTCTGACTTTCCANATTANCTTGCTNTCCTAAGCTG
CATCATTGCTATGACTCTAATCTTNCTAACCTTTCCTNAAATCTTGCATNTCCCTTNATG
NTGGTGAATGAAATANATNAAACGNCACACAATCACAGGGNGGGGGTTCTCNACCNCCGG
NATTNAAANTTTCTTTCCAGGCCCGAAAGAAAAAGGGAAG
Sequence 5696
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT

Table 1

TTTTGAAGGAGAGAGACTTTTTCCGCTCTCTCGCTCCCTGTTAAAGCCGGGTCTAGCACA
GCTGCANACGCCACCAGCGAGAAAGAGGGAGAGGAAGACNNATAGGGGGNGGGGGGAAGA
NCAAAAAGAAAAGGTAAAAAGTCTTNTAGGANAACCTTTCACATTTGCAACAAAAGACCT
AGGGGCTGGANAGAGATTCCTGGGACNCAGGGCTGGAGTGTCTATTTCGAGCTCAGCGGC
AGGGCTCGGGCGCGAGTCGAGACCCTGCTCGCTCCTCTCGCTTCTGAAACCGACGTTCAG
GANCGGNTTTTTAAAAACNCAAGGCACA

Sequence 5697

NGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTNGACCAANANTTGTTTTATTTT
TCTNGCANCNNCTTTGTTAATTGCNCAAAATCATGTTNTGTTTTTGCCATTTAAACNTTA
TCNCNCAATCCTATTTTGAAANACAAATGTTTCATTAAAANCNGACCNNAANTAAAAATN
CNCAACCTTAATTACCTAGATTTGTCATTTAAAGGTTTAAAGAAAAAAGGGAGGGGCTTT
NTTACAAGCTTTTTCACAAGNGNCACATTTTNTCCTTAAAAGGGAAGGATTTCAAAANAA
AGGNG

Sequence 5698

CACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTCGGGCGACANAGTTTCGCTNTTGTCNCCAGGCTGGGGTGCAATG
GCNCCATNTCGGCTNACTGCAATCTNTGTCTCCCAGGCTNAAGCAATTNTNCTGCCTNAA
CCTTCCTGAAGNGGCGGGGGACTGCAGGCGCCCGCCANTACGCCCGACCCGNGTTAATTA
ATTCTAGAAGTACTN

Sequence 5699

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGATAGGGTTTCA
CTCCTGTCACCCAGGCTGGAGTGCAGTGGCACGATCTTGGCTCACTGCAGCCTCCGTCTC
CCACACTTAAGCGATTCTCCTGTCTCAACCTCTNGTAGCTGGGACTACAGGCACATGCCA
CTACATCTGGCTAATTTTTTTTTTTTTTTTTTTTTTTTAGTAAAAACAGGGTTTTGGCATG
TTGCCTAGGCTAGTCTCAAACTCCTGAGCTCAAGTGATCTGCCCACCTTACCCTCCCAAA
GGGCTGGGATTACAGGTTTGANACACCANACCTGGCCTCAAGTGCTTTTTGACAGGACTG
AACTTCACATCTACTCATCTAAATTTCATTCATCCTCCTACCTAGTTATTCATCCTCCTT
ACCTAGNTACTCATTCCATTTGCCATNATAACTTTGGTTTTAGGGAA

Sequence 5700

NCCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTNAGGANGGAATTTNACTCTGNCNTT
TNACGCTGCAGNGCAGCAGCATGATGNCGGCTTNCTGCAACCTCCACCTCTCGGGTTCAA
GTGATTCTCCTGCCTCAGCCTCCTGAGANTGGTATTATAGGCGTGCGCCACCACACCCTG
CTAATTTTTGTATTTTTAGTAAAGATGGGGTTTCACCATGTTGGTCAGTCTGGTCTCGAA
CTCCCGACCTTGTGANCTACCTGCCCCATCCTCCCAAAGTGCTGGGATTATAGGCCTGAG
CCACCGCACCGGTCTCTCCTTCTCTTTTAAGCTCTGGTCCCAAACTGCTACCCGCTTCCC
CAGCCAGGCCTCCCCCTGAGCAGACACACTGACCAAGAGAAAGCCTCCACCTACTGCCTG
GACATGCAAACCCTGCCGCAGCCCAAGGCCTTGGAGAGCTAGAGTTATGCTTCCGGCCAA
CGCTGAACCCTTCTTAGCTTAAACCGGGGTAACTGGGGGATCTTTTGAAAGGAAAGGATT
CTTANATGCTCAAGAAAATTCCAGTTTNGAGAAACTTGAAAA

Sequence 5701

AAGCCGCGCAATTTAAAACCCTTCACTTAAAAGNGGGAAACAAAAAAGACTTGNGGGTTA
CCCGGGGCCCCCCCCCCCTTCGGAGGAGGTTACCTTTCTTAAGAAATTTAAAATTAAACCG
CCNGGGGGGGCCAAGAAAAAAAANGGGGGGGCCGNGGCGGGGACNTTNCGGGCTTTTGTT
TTGTGGTTTTNGCTTTCCTTTGAANATTTCCCCCGGAAAAACNGGTTCCCTTGCNTTTCT
TNCCCNCNAAAATTCCCTTTNCCCAAACTTTTTTNCCCAACCAAATTTTTNNGTNCCCCA
CCCTTAAATTTNNAAGACNCCGNNCTTCCCGTNCCCTTTNTTTGTCAAANCAAAACCAAA
NCCAAACCANANCTTTTTTTTGNAGGGGGGAAAAAAATTNGTAANGCNAAGTTNNTTTTT
TTTTTTTTTTTCNCCCCCCCCNGGGGGTNGGGGTGTNCCTTTTTAAAANAAAAAATATAA
NTTTTTTCTNTTNGGGGGGNTGGGGGAATTTNCTTTNCCCCCCCANTTAGAAAAAANCCA
AGGCCAAATTTTANTNTTGGGGNCCAAAATTTGGAATTTAAAAATTNGGGGGCCNAAATT
TTGGGGGGGAAAAAAAAAAAATTTGGGGGGGGGGGGGGGGTCNTTTGGGNAAAAAANCCA
ANCCGGNTTTAACCCCNNAATTACACTTTTTNAAATTCCCCCTTTNANNAATTTCCCCCA
AANAAAAAATTTNGGGNNAAATANAAACCAANTTTGGGGGAAAGGAAAAAAAGGAAATTT
TTTCTTTTTTTTTTTG

Sequence 5702

CGCTTTTTCTTTTCTTTCTTTCTTTTTTTTTTTTTTAGACGGAGTCTCCCTCTGTCACCCA
GACTGGAGTGCAATGGTGTGATCTTGGCTCACTGCAACCTCCGCCTCCCGAGTTCAAGTG

Table 1

ATTCTCCTGTCTCAGCCTCCTAGTAGCTGGGATTACAGGCGCCTGCCATCATGTGCCGGC
TAATTTTGGTATTTTTAGTAGAGATGTGGTTTCACCATATCGGCCAGGTTGGTCTCAAAC
TCCTGACCTCAGGTGATCAGCCCGCCTCTGCATCCCAAACTGCTGGGATTACAGGCGTGA
GGCCACCACACCCAGCCCGGATTACCCTTAAGTAGGAGGTACATTCTCTTCCATTGAAAA
AGAGAGAGAGCAGAGAATAGATGCACAGGCAAGCAGATCTGTATCCATTTTGGTGTGGGA
AGTTGCTTCCTCTCTGANGNTCTCTCTCTCTCTCTCTCTCTGGCTNTCTCTCTCTCTGGT
TTTCTCTCTCGGGCTTCAAGTAGGGAATGATTAAGTGAGGGGATACTGGTTGCTAAAGTA
GNAAGAAAATA

Sequence 5703

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGACAGAGTTTTGC
TCTTGTCACCCAGGCTGGAGTACAATGGCACAATCGCGGCTCACTGCAACCTCCACCTCC
CGGGTTCAAGTGATTCTCCTGCCTCGGCCTCCTGAGAGCTGGGATTACAGGCACCTGCCA
CCATGCCTGGCTGTTTTTCATATTTTTAGTANAGACGGGGTTTCACCATGTTGGCCAGGC
TGGTCTTGAGCTCGCGACCTCAGGTGATTCGCCCACCTCAGCCTCCCAAAGTATTGGGAT
TACAGATGTGAGCCACTGTGCCCGGCACTTTTCTGCTTTTAAATACAATGATTTTAGAAA
GTCTGTATATGAACTTTGGGCTTGTACCTAGATATCCCAGTGTGTGTAGGGAGCCCTGTA
TATCTGCAAGGGGATCCATTAGACCAAGGATATTAGATCCAGCACTTCTCCTTTTTA

Sequence 5704

AAGNCGCGCAATTAAACCCCTCACTAAAAGGGGGAACAAAAAGNCTGGGGGGNTACCGGG
GGGCCCCCCCCCTCGGGAGGAGGTACTTTCTTAAGNAAATTAAANTTTAAACGGCCGGGGG
ATTGGGCAACCATTGCCATGGCCGGCCAAAGGTNAGGGGTTCTTACCAATGGGAACGGCT
TACNTTTCCCCCTTANTTCANTAAAGGAAAGGGAAGCCTTTTNTTCAACCCTTTTTTCAA
TGGATTTCAANCCGCCCCCCTTAGTAAATCNCANTTTTTTNCCCTTTTAANTACTNGGGN
NTTTTCCCTTAAGTTCCCCTTNGGNANTTGGCCCCCNTTTTTTTTCNCCTTAAAAAAACC
NTTTCAANAAAAAACCAAAAANAAAACTTTATAACCTTAAANTAACCTTAAAACCATTTN
TTTTAANNAAACCGGNCCTTCAAAGGGGAAAAAATTATTGNAAAAAACCCCGGGGGNTTT
GGAAAACTTTAATTTTTCCTTNNGGGCCCCGGNNGCCAAANTTCAAATTNCCCCTTTAAA
GNGNTNCCCTTTNAAATTTNGGGNNNNCCCCTTTTNCCCAAATTTNCCCCNTTAACNGNG
CCAATTNTCCCTTTTTTTANCCAANTTAAAAACCAAAGAAACCCNNAAGGGGGGTTCCNA
AAACCGGAATTTNCCCCCCTTNCCCCCCTTTTTAACCCAATTTTNAAAA

Sequence 5705

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTT
TTTTTGAGACAAGATCTTGTCCTGTCACCCAGGCTGGAATACTGNGGTGCAATCATAGCT
CACTGCAGCCTCAAACTTCTGGGCTCAAGTGATCCTCCCACCTCAGCCTCCTGAGTANTG
GGAATGCAGGCACATACCACCATACCTGGCTAATTAAAAAAATTTTTTTTAATCTCACTG
TATTACTGAAGCTGGCTGGAACTCCTGGCCTTGAACGATCATCTCAGCCTCCCCAAACTC
TGGGATTACAGGCATGAACCATTACACCTGGCTTGAAGAGAAGAGGTTCTTAATATTGAA
GAAGCCATTTATCTGNTTTTGNTTTTTTTCCCCTCATGTATTGGGTTTTTGGTATTGGAT
CTAAAGAGATTGTTGCTTAACTCAAGACCACAAAGANCTTTTTCTATTTTTTTCTTCTAA
GNTTTTTGNAGTTCTAGGTTTTACATTTAAGTCTCCAATCATTTTGAGTTAAATTTTGNG
TATGGGGNGATGTATGGACAATGGTCATTTTTTTTGCATATGAATAACCATTATTTTAAC
NCCATTTATTGAAAAGACTATCNTTTTGCCCATGAAATTAACTTTGCATGGCTTTTGNAA
ATCAACTNTCTATATATATGGGGGGNCTACCNGGTCTGGCATATTTNACTATTTGGATAA
GTTNGAGAATATTAACCACCCCGGGCTTAATTTTTAATAGNTTTANAAGNCTNAAAGGCA
GGCAAGAACNANTTTCCACTTTGGTATTTTTCAAAAAATACCTTNGGATTTTAAAAT

Sequence 5706

AGTACTTCTAGAATTAATTAAGGCGGGGGATAAAGTTAAGGTGTAGAGTATNTATTAGGT
TATTTGGCTTGTTTGTTTGTTTATGCAAATCATGTTAGGTTGTTATCACCTTAACAATAA
TGGGTTATAAGATAGTATGTTCTGGCCTCATGGTAACCTCAAACCAAAATACATACAATG
GATACACGAAAGATAAAAAGCANGAAACTAAATCATGTCTTCANAGAAAATCATCTTCAC
TAAAAGGAAGACAGAAAGGAANGAAATAAGGAAGAGAANATCACAAAACAACTGGAAAAG
AAATAACAAACCGGCAGGAGTAAAATCCTTATTTATGAACAATAATATGGAATGTAAATC

Sequence 5707

CGCTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGACCAGAGAGGCCCCAAACTAGCAGCCT
GTCCTCCTNAGTAGCCCCAGCATCCCTTCATCATTTTGTTGCCCTTCTATGGGCCTAGTT
TAGGTCTGAGAGGCATAGTTTAAAATTTTTATTGGTATTTATTTATTCTANAGATAAGGT

Table 1

CTTGCTATGTTTCCCAGGCTGGTCTNGAACTCCNGGCCTCAAGCAATCCTCCTGCAGCAG
CCTCCCAAAGTGCTGGGATTACAGGCATGANCCACCACNTNTGGTCAGACAGGCATAGTT
TTACAAATATGTGGGTGGATAAATGCTGGCCAGTCTTACTTCATCACTNCTATCAATTGA
ATGCTTTTGGTTGGAAATAACAGAAAATCCAACTAAAAGTGACTTAAACAAAGGAAATGT
TATTATCTCATGTCCCAGGAATTCTGGAGGTAGACTGGTTCAAGGGTGGATTAATTAATT
CTAGAAGTACTCTCGAGGGGGGGCCCG

Sequence 5708

ATTAATNCACNCTNGTACCAGGCTACCTNCAGAATTCCTGGTACATGAGATAATAACATT
TNCTTTGTTNAAGTCACTTTTAGTTGGATTNTCTGTTATTTCCAACCAAAAGCATTCAAT
TTGATACGAAGTGATGGAAGTAANACTGGACANCATTTATCCACCCACATATTNGTAAAA
CTATGCCTGTNTGACCAGACNTGGTGGGNTAATGCCTGTAATCCCAGCACTTTGGGAGGC
TGCTGCANGANGATTGNTTGAGGCCAGGAGTTCAAGACCAGCCTGGGAAACATAGCCA

Sequence 5709

CNGCCCCCCCTCGAGAGTACTTCTTTTTTAATTAACGCGGGGGATNNANGTCACGGTTTT
NAGGTGCAGCTGCCGCCACCGCCGCTTCTGCAAGGTCTCAGGGACGGGCTGCAGCCATGT
CCTATTGCCGGCAGGAAGGGAAGGATCGAATCATATTTGTAACCAAAGAAGATCATGAAA
CTCCAAGCAGTGCAGAATTGGTGGCTGATGACCCCAACGATCCATACGAGGAGCATGGAT
TGATACTGCCAAATGGAAACATTAACTGGAACTGCCCATGCCTTGGGGGAATGGCCAGCG
GTCCCTGTGGAGAACAGTTTAAGTCAGCCTTTTCCTGCTTCCACTATAGCACGGAGGAGA
TCAAGGGGTCAGACTGTGTAGACCAGTTCCGGGCCATGCAGGAATGCATGCAGAAATACC
CAGACCTCTATCCCCAANAGGATGAGGATGAGGAAGAGGAAAGAGAGAAGAAGCCAGCNG
AACAAGCAGAAAAACAAGCTTCCATTTGAGGCCACTGCAACCAAAGAAGAAGAGGGATCA
AGTTAATGAANGCCACAAGGCACTGGGCACCAGTCCTTTTGGAGTGGACCTTTTGCAAAA
GGGCCTTGNNATTACCTTTCAAGAAAGGTTTCCTTNTGTTGNCTGGTGCCTTATAATATA
CCAAAAAACCTTATTTTGATGAACANAAGGTNTTGGAGGGNTTGACATNTTGGACATATT
CCCCTGAAAAAAAANGGGGGTTGGATGTATGTGNGTCCTACCCAAACCTTTGGGCGCCCC
TTTNGAATTCTAAANTGGCCCGAATTTTNCCCTTTA

Sequence 5710

TCGAGAGTACTTCTAGAATTAATTAACGCGGGGAGTTATNANAGATAATGCACACCTTAA
AATNTTACTACTGGGTTATTAATCCTGCTGACAGNTGTGGCATTACACCTAANGGATGAG
GTGCCCATTCCCAGGTCCAATCGGTGCAGTCTGGGGCTGAGGTGAGGAAACCTGGGTCCT
CAGTNAAGGTGATCCCANATACACCTTCACCTTCCACTAC

Sequence 5711

AGTACTTCTAGAATTAATTAACGCGGGGTGGGGTGGCATCTGCGATTCAAGACAGTTTTT
TACATCTCTTCAGTGCCTCTTTCAGCTATATGAATTAAAAACCAGGTACTGTGGGTGCTC
ACCTGAATTCTGGTTCTTATGAAGGTGCTTTTATGGTGTAAATAGTTTTTAAATTGGTGT
CCTTGTAGAGGGGACAATCGGTAGAGCCTTCTATTCTGCCATCTTGCCCCATCTCCTCAC
CTTGAAATTTATATTATATGTTAACTATAAAAGCTTTACTTAAAAAGAAAATTCTGAACA
TCGGTCATACCCATTTATCAAAAATGACTATTATTTTTTAAACTGGAAGATCTTACTATT
GCAGGTATTTTGATAACAAAGGTTATAATGGGAGTACGTTTTTATTCTAAGTCATAACAT
TNATCATTTTAACAGATAGNTAAAATATTNAACTCTGCGTAATTACCAGTAAGTCATTTT
ATATGCTTTCTGGCTTTTAAGAAAGATTTATTNTCCACTACCTTAAACAATCTTATAGTA
TGGTGGGCANAATAATTGCACCCACCAANGATGCCCACACCCTATCTCTGGAATTTGTGA
ATATGTTGGAATTCAGGGGCAAAAGGGANTTGCCAATGTGNTAANGCTAANAAATGTTGG
GATGAGGAANATTATCCNGGATTATTCCNANTGNACCCAAATNTAATCACATGAAGCCCC
TAAAGNGGNTAATTATTACCGGTTGGGGTCAGAGATGGGGAGAACCNGTGGGAGACCGGA
GGGCCCAANACCTTCAATNTGAACAGNCCTCACGGNTTTTACCTTTAAAGGGG

Sequence 5712

TTGGAGCTTNCCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTTTTNTNNTTNTTTTGAG
GAAGGCACCTACAAAACGAANGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAA
ATATTAGCTCAGTCATTTTCANAAAGGTTTTTCCAATTATCATTTTANAGATGAGGAAAC
TGAAGCTCAGGGAGGCTAGGAAACTTATCCAAAGCCTCTTAAGAGGCTATGTTAGTCAGA
CTGGGCTAACAGCTGTAACAACCCCAGAATTTAAATGGCTTAACACATTAGGAGTTTATT
TGTTATTGCCATAACAATTCAGGGTGTATGTTTGGCAGGTAGTCTACACAGTGATTCAGG
GACCCAGGCTCCTNCCCTCTGGGGGGCTTTTTCTCCCTCTAGTGCTGGGAGCTCTCCATG
CAAATGGNGGATGCAGAAAGAGAACAAAAAGTGGGGGATTTTT

Sequence 5713

Table 1

ATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTT
TNNNNAAAAGNCCGTTCTTACGTATTTTTTTTTAAACTTTTATTTCAGTAGTGTTTGGGG
AACAAGTAGTGTTTGGTTGCATGGAAAAGTTCTTCAGTGGTGATTTCTGAGATTTTGGCC
ACCCATCACCCAAGGGTAAGTCTTTTTTATCCATCAAGTCTGTACCCAATGTGTAGTCTT
TGTTTTTTTCTTTTTTTTTTTTTTTTGANACTGAGTCTCATTCTATCACCCAGGCTGGAGT
GGAGNGGCATGATCTTGACTCACTGCAACATCTGCCTCCCGGGTTAATTAATTCTAGAAG
TACTCTCGAGGGGGGGCCCGGTCCCAACTTTT
Sequence 5714
TTTTTTTTTTTTTTTTTTTTTTTTTGCTATGGAGTCTTGCCATATTGCCCAGGCTGGTCT
TGAACTCCTGGGCTCAAGCGATCCTCCTGCCTCAGTCCCCTAAAGTGCTGGGATTACAGG
CGTGAGCCACCACACTCGGCGAGGTTCATTTTTCTCATGTGAAAGACTTGACATTCATCT
CTGCCCACACTTTGATCATATCANAAAACAACCTGTGCAGCCGCTTTCTGATTGCTGAAG
CCGCTTCATTCTTCCTCAGCAGGACCCATGTCTCGGACATAGGAATCCGGCCGCTGCATC
TTCACCTTTTTTCCCGTACTGGTATCTATCCAGGTGTCGGACCCGTAGATCATAGTGATA
GGCACATCTTTTCGAATCAAGTGAATTCGCTCCAGCATAGGGCGCCGGGCCCAGCCAAAG
GACTCCATCATG
Sequence 5715
TCGAGAGTACTTCTAGAATTAATTAACGCGGGGGGCGCAGTGGCTCACGCCTGTAATCCC
AGAACTTTGGGAGGCCGAGGCGGGCGGATTACCTGAGGTGAGGAGTTCGAGATCAGCCTG
GGCAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAATTAGCCGGGCGTGGTCACAC
ATGCCTGTAATCCCAGCTACTCGGGAGCCTGAGGCAGGAGAATCGCTTGGACCTGGGAGG
CGGAGGATGCGGTGAGCCAAGATCGCGCCATTGCACTCCAGCCTGGGCAACGAGTAAATC
TCCGTCTCACCCNANNAAAAANAAANANNNAAAAAGCGGCCGCCACCGCGGTG
Sequence 5716
ACTCTGATTTATTGNGGGGTAAAGCATGTTATAGTGNTCCAGCTTCACTTTTTTTCTGAA
TGGCTATCCAGTTGTCCCAAGATCATTTGNTGAATAATTCATTTTCCCCCATTTGAAATG
ACACCTTTTCGTATACTAAAGTCCCAAGTCTCTTAGTTATAAAACAGTAATAAACCCTTG
AAACAGGCATTTTCCTAAAATACATTTTGTTTAAGTAAGACAGTTTTCCCCCGCGTTAAT
TAATTCTAGAAGTACTCTCGAGGGGGGGCC
Sequence 5717
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTCTTTCTTTCTTTTTCTTT
CTTAATTGACGAACAANGGANTCCNGTNNTGNTGCCCATGCTGNAATGGAGNGACACAAT
CCNGGCTNACTGCANCCTCCACCTGCCTGGTNCAAGTGATCAAGTGATTCTCCTGCCTCA
GCTACTGAGTAGCTGGGATTACAGGCACCTGCCANCATGCCCAGCTAATTTTTTTTATTT
TTTNNNTTANCAGAGACANGGNTCCACCNTGTNGNCCAGGCTGGTCTTGAACTNCTGACC
TNANGAGATTCACCTGCCCNGCCTCAANCTCCAAAGTGCTTGGATTACAGGCNTGAGCCA
CTGCNCCCAGCCATTTTTNTTTTTATTAAAAAAGAAAATNTTATCTTTGNGGGTNATAAA
CAGNAAACATTTGGGNNTAATAAAAACTTGGGAGCATTTNGNTATGTGTGTGCCTGTNTG
TGTGCGCACCNGTGTGTTTTAAAGATGGANTCTTNCTATNTNNCCCANGTNGGAGTGCAG
ACGCTCCCNCGTTANTTTAATTCTAGAAAGACCGGTCNANGGGGGGCCC
Sequence 5718
GGAACAAAAGCTGNGTCCGGGCCCCCCTCGAGAGTCTTCTAGAATTAATTAAAGTCAGCA
TGATGTATTAAAACAAAGCATAATAATAATAAAATTTTAAAAAATGTAAACTTTTACAAT
CATTGAAAGGCAAAAATAAAATAAAACAAAATAAAATACAGTTGATCCTTAATATCTGTG
GTACATTTATTCCAGGACGCCCCTCTTCACCCTCCAGATACCAAAGTCTATAGATGCTCA
AGTCACTAATATAAAATGGTGTAGTATTTGCATATAACCTATGCACATCCTCTCATAGAC
TTTATTTCTAATTAATTTTATTATTTTTAATTTTTGNGGGTACATAGTATGTATTTATAT
GTGTATATATATACATATATATGGGGTCATTACATGTTTTGATATAGTGATAGCTTAACA
GGATGACTATAGTCAATAATAACTTGATTGTACATTTTAAATAAGAGTGCAATTGGATTG
TTTGNAACTCCTGTATACTTTAAATCATCTNCAGTTTACTAATACCTAATACAATGTAAA
TGCAAGGGAAATAATTGGTATACCTGGATTGGTTAAGGGGTTATGGCCAAGAAATAAAGG
CTGTACATGTTCACTGNAGAAANAAGCCTTCATTCTTNTTTTTNAAAAAAATTTTTTGGA
CTAGNGGATCCCAAGGCTGGCCGNATTCTCAAAAAATGCCATAAAANTTTCNTAAAAGAC
AGAATAAACCNGGTNGGACAAAANAGGNTCCAGACCCCGAGGGGACCCCTTTNAGTGAAC
TTGTTTAANATNCNNATTNTTGGGTTTTGCCCTTTTNTTTGGGGTTANNTTTNAAAATCC
CCAAAATT
Sequence 5719

Table 1

CCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTGAGGAAGGCACCT
ACAAAACGAAAGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGCTC
AGTCATTTTCANAAAGGTTTTTCCAATTATCATTTTAGAGATGAGGAAACTGAAGCTCAG
GGAGGCTAGGAAACTTATCCAAAGCCTCTTAAGAGGCTATGTTAGTCAGACTGGGCTAAC
AGCTGTAACAACCCCAGAATTTAAATGGCTTAACACATTAGGAGTTTATTTGTTATTGCC
ATAACAATTCAGGGTGTATGTTTGGCAGGTAGTCTACACAGTGATTCAGGGACCCAGGCT
CCTTCCCTCTGGNGGCTTTTTTCTCCCTCTAGTGCTGGGAGCTCTCCATGCANATGGNGG
GATGGAGAAAGAAAACAAAAAGTGGGGGAT

Sequence 5720

TTTTTTTTTTTTTTTTTTTTTTNNGGGTTTTGAGGCAGAGTTTTGCTCTGTCGCCCAGGC
TGGAGTGCAGCGGTATGATTATGGCTCACTGCAGCCTCGACCTCCTGGCCCCAGGCGATC
CTCCCACCTCAGTCCCCTAAGAGCTGGGACCATAGGTATGTGCCACCACACCCGGCTAAT
TTCATTTTTTGTAGAGATGAGGTCTTACTATGTTGACTAGGCTGGTCTCGAACTCCTGGG
CTCAAGCAGGCCTTGTGCCTCGGCCTCCCCAACTGTTGGGATTATGGGCGTGAGCCACTG
TGCCCGGTCTGCTCGCTGAATTTCTAATGAGCTTGAATTACAGGAAGTAAAAATAAATTT
TCCACTTACAGACCACTAACCAGTTTAGAGCAAATCTGTAAGGAGTGTATAGATTATGCC
ACACGAGCGCATGAAGCTCCACATGTTTAAAAGACAAAGTTTACCTNTTGGGGAACAGCA
AGTGTTCAACTAGGGAGGGCATNAACCATGAACCTGGAAAAAAACCCAAGACATTANGGNG
GNGGNTNGGGGNGNCTTTTATTTTAAAAAACCTATTTTTAAAACGTTCCTTTTTCCCCCA
AAAAATTTANCNACGAAAGGCAATGCCCTTATTGTTANAAACTTCCTTACTTTCGAACTA
ANCCANGGGNGAACTTTTGNGCCGGGGGGGTAAANAAG

Sequence 5721

GGGAGTCTTACTCCGTCACCCAGGCTGGAGTGTGGTGGTGTGATCTCAGCTCACAGCAAC
CTGACCTCAGGTGATTCACCCGCCTNTGTCTCCCAAAGTGCTGGGATACAGGCGTGAGCC
ACTGCGCCCGGCGTCTTTGAATTTTTTAAACTGAAGTTTAATTGCCTTTGAGTTTGATCA
TTCACTATTTGNCATTTGTATTTCTTTTGTTAATTATCTGCTCAAGCTCTAATTTCATAA
TGGAAATTTAATGGATTAACATATAACACCCACTATCACCCGCNTTAATTAATTCTAGAA
GTACTCTT

Sequence 5722

CCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGACCAGAGAGGCCC
CAAACTANCAGCCTGTCCTCCTNAGTAGCCCCAGCATCCNTTCATCATTNTGTTGCCCTT
CNATGGGCCTAGTTTAGGTCTGAGAGGCATAGNTTTAAATTTTAATTGCNATTTATTTAT
TCNAGANATAAGGTNTTGCTATGTTTCCCAGGCTGGACTTGAACTCCTGGCCTAAAGCAA
TCCTNCTGCAGGANCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACNTTGTGGN
CAGACAGGCATAGNTTTACAAATATGTGGGTGGATAAATGCTGTC

Sequence 5723

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTGGCGATGCAGGCTCTTTTTTGGTTCCATATGAACTTTAAAGTAGTTTTTTCCAAT
TCTGTGAANAAAGTCATTGGTAGCTTGATGGGGATGGCATTGAATCTATAAATACCTTGG
GCAATATGGCCATTTTCACGATATTGATTCTTCCTACCCATGAGCATTGAATGTTATTCC
ATTTGTTCGTATCCTCTTTTATTTCATTGAGCAGTAAGTTTGTAGTTCTCCTTGAAGAGG
CCTTCACGTCCCTTGNAAGTTGGATTCCTAGGGATTTTATTCTCTTTGAAAGCAATTGTG
AATGGGAGTTCACTCATGATTTGGCTCTCTGGTTGNCTGNTATTGGGGAAAAAAAAAGCT
TGNGAATTTTGNACCATTGATTTTGTATCCCGGAGACTTTGCTGAAGTTGCCTATCANTT
TAAAGGAGAATTTTGGGCCTGAAATGAAGGGGGTTTCTAAAAAATAAAAAACATGGTCAT
CTGCAAACAAGAAACCAATTTGGACTTNCNGGTTTTCCCAAATGGAAAGCCCTTTTAATT
TCCTTCTCCTNGCCGGAATTGGCCCTGACCAAAAACCTTTCAAACACTATTNTTNAAATT
GGNAANTGGTTAANAAAAAGGGCCATNCCCTGNCNTTGGGCCCCNGTTTTTA

Sequence 5724

GCCCCCCTCGAGAGTCTTCTAGAATTAATTAACGCGGGGGCAGAAAAGGGNTNNNTTNNC
TCGGCTTGNTGTGTTGNGGGGTNATTGNNNNAGACNGGTCCTGCTGCTNCCGNAGCCTGC
CAGCTGTCCNACGATGCTTCCACCTAANTNAAGCCGNCGTCGCCCCTNNACAACAACAAC
AACAACTGCNANGAAAATGACCATTCTTTGCCCCCGNCGGCCGGCCTTAACANGTTCCTG
GGGTGGAGCTACCCATGAACAGCAGCAATGGCAATGATANTGGCAATGNGAAAAATGGGG
GGCTGGACACGTACCATNCTNATCCTNCATCCACAATGGAGACATTGGAGAAGATCTT

Sequence 5725

TGGGTCCCGGGCCCCCCTCGAGANTNAGANTNCTTCTAGAATTAATCAACGCGGGGGGCT

Table 1

TTTTTTTNGACCTACCTGGAGCTGGCCAGNGNNTGTNATGGANCAACATNCGGGNNTNNA
GATCGAGTCGCGCCTCGGGGGCACAGGTGAGGCTCGCATAACACCTGNTGGGTGCCTTTG
AGATAGAGATAAATGGACAGNTGGTGTTCTCCAAGCTGGAGAATGGGGGCTTTCCCTANG
ANAAAGANCTNATTGAGGCCATTCNAAGAGCCAGTAATGGANAAACCCTAGAAAAGATCA
CCAACAGCCGCCCTCCCTGCGGTNATCCTGTGACTGCACAGGACT

Sequence 5726

AGTACTTCTAGAATTAATTAAGGCGGGCAGTGTTCATGTTTCAAAAGCTAACACTGGCAT
GACTGACTCAATGTTGGACCCAGACAAATTAAAAAATGGTAGATAAAAATACATATAATA
CGCCGGGCGCGGTGGCTCAAGTCTGTAATCCCAGCACTTTGAGAGTCCGAGGCAGGTGGA
TCACAAGCTCAGGAGTTCAAGACCAGCCTAGCCAATAATGGTAAAACCCCGTCTCTGCTA
AAAATACAAAAATCAGCTGGGCATGTTGGTAGGCACCTGTACTCCCAGCTACTCGGGAGG
CTGAGGCAGGAGAATTGCTTAAAGCTGGGAGGTAGAGGTTGCAGTGAGCCAAGATTGAGC
CACTGCCCTTCCAGCCTGGGCTACAGAGCAAAGACTTCCGTCTCAAAACAACAACANCAA
AAAACATAAAATACTCAAACAATTAAAT

Sequence 5727

GCGGGGGATAAAGTTAAGGTGTAGAGTATTTATTAGGTTATTTGGCTTGTTTGTTTGTTT
ATGCAAATCATGTTAGGTTGTTATCAGCTTAAAATAATGGGTTATAAGATACGTATGTTC
TGGCCTCATGGTAACCTCAAACCAAAATACATACAATGGATACACTGAAAGATAAAAAGC
AAGAAACTAAATCATGTCTTCAGAGAAAATCATCTTCACTAAAAGGAAGACAGAAAGGAA
AGAAATAAGGAAGAGAAGATCACAAAACAACTGGAAAAGAAATAACAAAACGGCAGGAGT
AAATCCTTATTTATGAACAATAATATTGGAATTGTAAATCAACTAAAATCTCCAATCAAA
ACACAGACTG

Sequence 5728

AGTACTTCTAGAATTAATTAACGCGGGTATCAAAGTACTCAAACTATATATCATATACTG
TACATAAAATATCAAAGTACCCAAACTGTGTATTATTATATACTGTATATAAAATATCAA
AGTACCTGAAATATATATTGTATACTGTACATAAAATATCAAAGTCCCCAAAATATATAC
TATATACTGTACATAAAATATGAAGGTACATCAAATATATATTATATCCTGTACATAAAA
TATCAAAGTACACCTAATATATATTGTGTACTGTACATAATATATTAAATCGCCCAAATA
TATATTGTATACTGTATATAAAATATGAAGGTACTTCAAATATATATTATATGCTGCACA
TAAAATATCAAAGTACCAAAAATATGTATTATATACTGTACATAAAATATGAAAGTACCC
AACCATTTATAAT

Sequence 5729

AGTACTTCTAGAATTAATTAANGCGGGCGNGNTGGCGNGCACCTGNAGTCCCAGCANCTN
NGGAGGNTGANGNANAAGAATGGCNTGAACNCGGGANACNGANCTTGNNTNGANCCGAGA
TC

Sequence 5730

AGTACTTCTAGAATTAATTAAGGCGGGGGTTGGAGGTGGGGACTCTGGAAAAGCAGCCCC
CATTTCCTCGGGTACCAATAAATAAAACATGCAGGCTGAAAAAAAAAAAAAAAAAAAAAAN
CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANG

Sequence 5731

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGAAGGCACCTA
CAAAACNAAAGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTANCTCA
GTCATTTTCANAAAGGTTTTTCCAATTATCATTTTAAAGATGAGGAAACTGAAGCTCAGG
GAGGCTAGGAAACTTATCCAAAGCCTNTTAAGAGGCTATGTTAGTCANACTGGGCTAACA
GCTGTAACAACCCCANAATTTAAATGGCTTAACACATTAGGAGTTTATTTGTTATTGCCA
TAACAATTCAGGGTGTATGTTTGGCAGGTAGTCTACACAGNGATTCAGGGACCCAGGCTC
CTTCCCTTTGGNGGCTTTTTCTCCCTCTAGTGCTGGGAGCTNTCCATGCAAATGGTGGAT
GGAAAAAA

Sequence 5732

TACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTT
TTTTTNNNNNAACATNAAACTCTGATTTATTGGGGGGTAAANCATGNTATANTGTTCCAN
CTTCACTTTTTTTCTGAATGGCTATCCAGNNGNCCCAAGATCATTTNTNGAATAATNNAT
TTTCCCCCATTNNAAATGNCACCTTTTCNNATACTAAAGTCCCAAGTTTTTTANTTATAA
AACACGTAATAAACCCTTGAAANAGGCNTTTTCCTAAAATACATTTTGNTTAAGTAANAC
AGTTTTCCCCCGNGTTAANTAATTCTAGAAGTACTNTNGAGGGGGGGCC

Sequence 5733

AGTACTTCTAGAATTAATTAAGGCGGGNGATAGNGGGTGTGATATGNTAATCCATTAAAT

Table 1

TTNCATTATGNAATNAGAGCTTGAGCAGATAATNAACANAAGAAATACAAATGACANATA
GNGAATGATCAAACTCAAAGGCAATTAAACTTCANNTTAAAAAATTTAAAAAGACNCCCG
GGCGCAAGTGGGCTCACAGCCTGTAACTCCCAGCACTTTGGGAGACAGAGGCNGNTGAAT
CACCTGNGGTCAGGTTGCTGNGAGCTGAGATCACACCACCACACTNNANCCTGGGTGACG
GAGTAAGACTCCATCTACGNAANGAGTAAATNCTTATTTATT
Sequence 5734
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGAAGGCACCTA
CAAAACGAAAGTGCCTAGGGCTTACAAAAGTCATATGTANCCTTTACAAATATTANCTCA
GTCATTTTCANAAAGGTTTTTCCAATTATCATTTTAAAGATGAGGAAACCTGGAACCTTA
AGGGAGGGCTAGGAAACTTATCCAAAGCCTNTTAAGAGGCTNTGTTAGTCANACTGGGCT
AACAGCTGTAACAACCCCANAATTTAAATGGCTTAACNCATTAGGAGTTTATTTGTTATT
GCCATAACAATTCAGGGTGTATGTTTGGCAGGTANTCTACACAGTNGATTCAGGGACCCA
GGCTCCTTCCCTCTG
Sequence 5735
ACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTT
TTTTTTTTTTTNATTNGGCATAGTCCTTCCTTCATCTCACTCCAACTCTTCTTTCCTGGC
TCCCCGCTCGGCTCCACCGCCGCGGGCCTCCCTTCACACATAGCACAGGTAGAGGTACCG
TNTTNTNTATCCTTCAATCCGGGCCGGGAATCTCCTCGGGCTTGTGGCCCTTCATGTGCT
TCTGCATGGAGGAAAGGCTGGGGCANTACTCTGNGCAAATGGNGCACTGGTAGGGCGAGG
CNCCCG
Sequence 5736
TTTTTTTTTTTTTTTTTTTTTTTTTGCTATGGAGTCTTGCCATATTGCCCAGGCTGGTCT
TGAACTCCNGGGCTCAAGCGATCCTCCTGCCTCAGTCCCCTAAAGNGCTGGGATTACAGG
CGTGAGCCACCACACTCGGCCGAGGTTCATTTTTTCTCATGTGAAAGACTTGACATTCAT
NTCTGCCCACACTTTGATCATATCANAAAACAACCTGNGCAGCCGCTTTCTGATTGCTGA
ANCCGCTTCATTCTTCCTCAGCAGGACCCATGTCTCGGACATAGGAATCCGGCCGNTGCA
TNTTCACCTTTTTT
Sequence 5737
AGTACTTCTAGAATTAATTAAGGCGGGGGGATGGTAAAATGTCACTTGCGAGTAACAGTA
TCCATAGGCAGAACCTGTGGAGCAAGAAAGTTTGCTAATAAAATTTTGTTTACCCTAACA
TAGGTTCTTCATGGAGAGCAGTACTTAANAGTTATATAAACCACTTCCCAGAGCAGGAAA
ATTAAAATGTGAAGCAGTTGTTGCTGATGTCCTAGATAAAGGATCCGGTGTAGTGATTAT
TATGGGATGTCTATTCTTATTCTGAGAAGGAACTTATATGCCACAATCAGTTCTCTCTCT
TTCTTGTTGGCTCTGGAGGCTTTGGTGGAAAACGGACATCAGACAAAGTNAAGGTAGCTG
TAGCCATACCT
Sequence 5738
AGTACTTCTAGAATTAATTAAANANATAAAAACCAACATTAACCAGAGTTNGGAAGAAGT
TGATNCCAACCTTCATAGGTGACTCTGAGGGGTNCAAGNNNTCAGAGGAAAAAGNAACTG
NNGATGTGATGGAAAANAGAGAACTAGAATTAGAAGNGGAGCCTGAANATGTGACANAAT
TGTNNCAATCTCNTGNAAAAACTTGAACAGATGAGAGGCTGCTTTGNCTAGATAANCCTN
GAANGTGGTTTNCTGAA
Sequence 5739
TTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAGGAAGGCACCTACAAAACGAAAGTGCCTA
GGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTANCTCAGTCATTTTCANAAAGGT
TTTTCCAATTATCATTTTANAGATGAGGAAACTGAANCTCAGGGAGGCTAGGAAACTTAT
CCAAAGCCTNTTAANAGGCTATGTTAGTCANACTGGGCTAACAGCTGTAACAACCCCANA
ATTTAAATGGCTTAACACATTAGGAGTTTATTTGTTATTGCCATAACAATTCAGGGTGTA
TGTTTGGCAGGTAGTCTACACAGNGATTCAGGGACCCAGGC
Sequence 5740
AGTACTTCTAGAATTAATTAAGGCGGGCAGGGGCTTGGGAAGCCGGTAGTGCTCATTGGT
CAGGTTGGAGATGGAATCACAGGGGGCCGGAAGTGAGTTTTTCTTGCTGTCTGCTGTTCC
CGAGTGCGATGGCAGAACTGGTTTGGGGCCAGATTACCGGTTTGGGTGGTGTCAGCTGAT
CCACCAGGTGCAGGGTCTGCAACATATCTCAAGCACTGATGTTAGGTTTTACAATAGTGA
TGTGATCCCAGGAGCAATTTGGGGAGGTTCAGACTTGGAACCAGAGGCTGCATGACCCCT
AAACCATAATGTCTAATCTTACAGCTAATTTGTTAGTCCTGCAAAGACAGACTGGTTCCC
CAGGCAAGAAGGGGGGTTCTTTTCGGGGAAAGGGGC
Sequence 5741

Table 1

ANAGAGGCCCCAAACTAGCAGCCTGTCCTCCTNAGTAGCCCCAGCATCCCTTCATCATTT
TGTTGCCCTTCTATGGGCCTAGTTTAGGTCTGANAGGCATAGTTTNAAAATTTTTATTGT
TATTNATTNATTCTANANATAAGGTCTTGCTATGTTTCCCAGGCTGGTCTTGAACTCCTG
GCCTNAAGCAATCCTCCTGCAGCAGCCTCCCAAAGNGCTGGGATTACAGGCATGANCCAC
CACGTNTGGTCANACAGGCATAGTTTTACA

Sequence 5742

AGTACTTCTAGAATTAATTAACGCGGGACCGCGGGCAAAGAAGGTAGGCCGGGNTGTCTG
GTGGAAGCGGNGGAAGTCCTGCTGCTTGAAGTCATTGGAGGAGCCAGCCTTCTGTCCACC
TACCTGCANAGCATTGCGGGAACCTTCTTGGANATGACCGACTGGCCCTGGGACTTCTTC
ATTCAACCTGAGTGCCGGCTCGACTACCCCATCAGGACAA

Sequence 5743

GGCCCCGGGCCCCCCCTCTAGAGTACTTNTAGAATTAATTAAGGCGGGGGTTCTTTCTAG
GGTGATGGAAATTCTAAAATNGAATCTGAGGATAGCTGCCTATATCCGTAAATATGTGAA
TATGCTGAAAAACCATTGACTCGTGCACTTTAAATGACTGNANTTGTATGGGTACATAAA
ACTGTATCTCGATAACACCTTCTCAAAAAGAATAAATGCAGTGGCTCACACCTGTAATCC
CAGCACTTTGGGAAGCAAAGGAGGGCCAATCACCTGAGATCAGGAGTTCGAGACCAGCCT
GACCAACATGGTGAAACCCCATCTCGACTAAAAATACAAA

Sequence 5744

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTNAAAAANATGGCTTGTTTATTCTTTTTCTCCCCTTTTTNNTTTATTTC
TTAAATTTTTTTCTCATTTTCCCTTTTAATTTCTTTATTGGNGGTTTATTTATTTTGAAA
CANAGTCTTACTTTTGTTNCCCCAAGNCTGGANGTGCAAGNGGCCGTGATCTCAGCTCAT
TGCAGCCTTGACCTTTCCAGGCTCAGTTGATCCTCCCACCCCCGCCTTAATTAATTNTAN
AAGTACT

Sequence 5745

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTT
TTTTTTTCCGGGTNCGGANCCGTTCCGGATGCTTTAGGCTGCCGGATGTCNGATCTNCGG
ATAACTGAGGCGTTTCTGTAC

Sequence 5746

GGGGGGNCCGGNAAANTTTTGGGGGGNAAGNCCTTCCCCCACCCCCGGCCGGGGGTTTGGG
GGGNCCCCGGGGGCCCCCGGGCCTTTTNTNTNTTTTNTNTTNTATTNTNNTNTTNTNTTA
TTNTTNTTTTNTTNTTNNTGGTAATNTTATCTTNTNTAAAAAAAAAATNNCCTTTTGGGG
TNACCAATTTNCCTTTTGGGGGGNCNACCTTTGGTTTTTTTTNTTAAAAAAAGAAAAAAA

Sequence 5747

AGTACTTCTAGAATTAATTAACGCGGGACGCGGGCAAAGAAGGTAGGCCGGGCTGTCTGC
TGGAAGCGGTGGAAGTCCTGCGGCTTGAAGTCATTGGAGGAGCCAGCCTCCTGTCCACCT
ACCTGCAGANCATGCGGGACCTCCTGGANATGACCGACTGGCCCTGGGACTTNTTTATCA
ACCTGANTGCGGNCGACTACCNCATCATGGACAAATGACCAGTTGGTGGCGTTTNTCTCC
CGATACCGAGATATGAATTT

Sequence 5748

CGCGGCGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAGATGGAATCTCACTCT
GTCACCCAGGCTGGAGTGCAGTGGCATGATCTCAGCTCACTGGAAGCTCTGCCTCCCAGG
TTCACACCATTCTCCTGCCTCAGCCTCTCAAGCAGCTGGGACTCAGGGCCAGCCGCCATG
CCTGGCTAATTTTTTTNGGTATTTTTTAGTACAGATGGGGTTCACCGTGTTAGCCAGGAT
GGTCTCGATCTCCTGACCTCGTGATCTGCCCACTTCAGCCTCCCAAAGTGCTGGGATTAC
AGGCATGAGCCACCATGCCCGGCCGATTTCACCTTTCAATGGCAATTACTATAAGACAGG
AAAGTTATTTATTTTTATATATTACCTAATTTTAAGTTACCTTATACAACCCTCATTAAT
AGCTGGTAGAACTAGAATTAAACTCTATGTGAATATGGCCTTATTTAAACAATGTATCCC
TAGCACCTAAACAATGCCTAACCTGNCACATAACTAAANATATATTNAATTAATATTTTN
GGNAATTAA

Sequence 5749

TTTTTTTTTTTTTTTTTTTTNNNAACATTTAACTCTGATTTATTGNGGGGTAAAGCATGTT
ATAGTGTTCCAGCTTCACTTTTTTTTCTGAATGGCTATCCAGTTGTCCCAAGATCATTTGT
TGAATAATTCATTTTCCCCCATTTNAATGACACCTTTTCGTATACTAAAGTCCCAAGTCT
CTTAGTTATAAAAACAGTAATAAACCCTTGAAACAGGCATTTTCCTAAAATCATTTTGTTT
AAGTAAGACAGTTTTCCCCCGCGTTAATTAATTCTAGAAGTACTCTCGAGGGGGGGCCCG

Table 1

GACCCAGCTTTTGTTCCCT
Sequence 5750
CGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGAAGGCACCTACAAAACGAAAGTG
CCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGCTCAGTCATTTTCAGAA
AGGTTTTTCCAATTATCATTTTAGAGATGAGGAAACTGAAGCTCAGGGAGGCTAGGAAAC
TTATCCAAAGCCTCTTAAGAGGCTATGTTAGTCAGACTGGGCTAACAGCTGTAACAACCC
CAGAATTTAAATGGCTTAACACATTAGGAGTTTATTTGTTATTGCCATAACAATTCAGGG
TGTATGTTTGGCAGGTAGTCTACACAGTGATTCAGGGACCCAGGCTCCTTCCCTCTGGTG
GCTTTTTCTCCCTCTAGTGCTGGGAGCTCTCCATGCAAATGGTGGATGGAGAAAGANAAC
AAAAAGTGGGGGATTT
Sequence 5751
GGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTT
TGAAGAATCAACAGACTCTATATTTGATCACAAAGCAAAAGTTTAAGTGTATTACTTAAA
ATTTTAAGACAAAATCTGGAATAATTATAACTAACACAAATTTTGAGGTAGAGGAAGAGA
ATCTANGATNGGTGAGATAAAATTTTCATCTTTGATAATGAGTAGACAAAANCNCTNCCT
TTAACAAGTGAAGAATTTAAAAAATTTAGAGAAGAGGAAATCATANGTGGTTTTT
Sequence 5752
GGGGAANCCGGCCCGGGCCCGTTTTNNNTTTTAAAAAAACCCGGGNAAAACCTTTNNCCC
NAACTTTTTTTNAAAANNNAGGGGGGGGGGCCCCGGGGAAAAAANTATTTTGGGGGGGG
GGAAAAAACCCCTTTTNCCCCCCCNAAACCCCCCGGGGCCCGGGGGGGGTTTTGGGGGGG
GGGCCCCCGGGGGGGGGCCCCCCCCCCGGGGCCCCT
Sequence 5753
TTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGAGGGACATGATTTAAACTATGGCAGGT
ATCAGCCCACCTCCCAATTCACTGTGGATTCATGATCCACAGAAAAATAGAAAACCTGGA
CCCCGCAGTCCAAGCAAAGCCACACAGACAGGGCACATAAAGGTTTGGTGACTCAAAAAA
AAGAAGCAATGAAGTGCATTATCCACAGTCATTTAAGCAGACTCCACTTACAGGCACACA
CACATACACACACACACAAAACCACACAATGTCTCACACACACACACACAGACATCCAAC
ATTTACAACACTCCCACAGAAACACACAGCGTGGGAACTCCTAAGGCTGCCTGGTACTGC
AGGACATTTGAGTGTGGGAGAGAGCCCCTNTCCCCGCCCCGCCCTGGGGAACACAGGCGT
GATGTACCTATAAATCACAGNGGGGCAAGTTTCAAAATGACTCACAACTACAATGCCTAG
GCAGGCTTGAAGAATCCTACAGATTTCTTTGCATCCTTTGGGATTTCAGAATTTATT
Sequence 5754
TTTTTTTTTTTTTTTTTTGAGATGGAGTCTTGGTCTGTCGCCCAGGCTGGAGTGCAATGGT
GCAGTCTCAGCTCACTGAAACCTCTGCCTCCCGGGTTCAAGTGATTCTCCTGCCTCAGCC
TACCGAGTAGCTGGGATTACAGGGGCCTACCACCATGCCTGGCTAATGTTTGTATTTTTA
GTAGAGATGGGGCTTCACCATGTTGGCCATGCTGGTCTCGAAGTGCTGACCTCGTGATCT
GTCCGCCTCGGCCTCCCAAAGTGCTGGGATTATAGGCGTGAGCCACTGCTCCCGGCCACA
ATCTACAACTGGATTTGTGCTTTGCAATTTACGCTTTCGAACATGCAGGAATGTAGTTTG
GGCATTTGTCTGGAACTTNGGATTCTNGGGACTCCAGGGTGGCCAAGGCGCGGAGGTGAC
TAAATGACATTGACCGGCC
Sequence 5755
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGTCTCGCTCTTTTGCCCAGGCTGGAGAG
TGCAATGGTGCCATCTCAGCTCACTACATCCCTGATTCAAGTGATTCTCCTGCCTAAGCC
TCCTGAGTAGCTGGGATTACAGGCACTTGCCATCATGCCTGGCTAATTTTTGTATTTTTG
TAGAGACGGGGTTTCACCATGTTGGCCAGTCTGGTCTTGAACTCTTGACCTCAGGCGATC
CATCCACCTCGGCTTCCCAAAGTGCTGGAATTATAGGCGTGAGCCACCGCACCCAGCCTT
CTGNGTGTATTTTCTTATGATGTAGAATGAGTGATAAAGCACCATAGGAGTCACCTAGTG
TTGCCTTTTCCATTTTTGAGTTGATAAATGGAGGTCTCAGTCTCTGTTAATTAGTGGTAC
ATCTGGGAAAAGTCAAATGTGTTGAGCTCGAAGGNGTTGGTTTGTTTGT
Sequence 5756
TTTTCTTTTCTTTCTTTCTTTTTTTTTTTTTAGACGGAGTCTCCCTCTGTCACCCAGACT
GGAGTGCAATGGTGTGATCTTGGCTCACTGCAACCTCCGCCTCCCGAGTTCAAGTGATTC
TCCTGTCTCAGCCTCCTGAGTAGCTGGGATTACAGGCGCCTGCCATCATGTGCCGGCTAA
TTTTGGTATTTTTAGTAGAGATGTGGTTTCACCATATCGGCCAGGTTGGTCTCAAACTCC
TGACCTCAGGTGATCAGCCCGCCTCTGCATCCCAAACTGCTGGGATTACAGGCGTGAGGC
CACCACACCCAGCCCGGATTACCCTTAAGTAGGAGGTACATTCTCTTCCATTGAAAAAGA
GAGAGAGCAGAGAATAGATGCACAGGCAAGCAGATCTGTATCCATTTTGTTGTGGGAAGT

Table 1

TGCTTCCTCTCTGATGTTCTCTCTCTCTCTCTCTCTGNCTCTCTCTCTCTGGNNTT
CTCTCTCGNGCTTNAAGNAGGGAATGATTAGNGAGTGATACTGGNTTGCTNAGTAGTAAA
GAAAATAAAGAAGGGGAACN

Sequence 5757

TTTTTTTTTTTTTTTTTTTTTTTTACTTGAATTGTTGTTATAGTGCTTCCGTTATTTATT
TTTATTTTTTTTATTATATACTTTAAGTTTTAGGGTACATGTGCACAACGTGCAGGTTTGCT
ACATATGTATACATGTGCCATGTTGGTGTGCTGCACTCATTAACTCGTCATTTATATTAG
GTATATATACGTGTTCATTGTACCCTTATCGACTTTGCAGCATGCTTATCCATCTAACTA
TTCATCTTTATTTGCCTTCGTTTTTTGAGTTCCCTTATTCATCCTAAAACAAAATATAAT
GCCTGACTCATAGTCA

Sequence 5758

TTTTTTTTTTTTTTTTTTTTTTTTGGGANGCTCAACCTATAATACCCAAAGGCTCTATTTC
AGTAGAATTTATTGGTTTGCTGATTATAGCANTTGACATAGTGTGCATTCTAGAGACCTT
AGAAAATGCANAAAATTTCAAGAAAAACATT

Sequence 5759

TTTTTTTTTTTTTTTTTTTTTTTTACTTGAATTGTTGTTATAGTGCTTCCGTTATTTATT
TTTATTTTTTTTATTATATACTTTAAGTTTTAGGGTACATGTGCACAACGTGCAGGTTTGCT
ACATATGTATACATGTGCCATGTTGGTGTGCTGCACTCATTAACTCGTCATTTATATTAG
GTATATATACGTGTTCATTGTACCCTTATCGACTTTGCAGCATGCTTATCCATCTAACTA
TTCATCTTTATTTGCCTTCGTTTTTTGAGTTCCCTTATTCATCCTAAAACAAAATATAAT
GCCTGACTCATAGTCAGACTTCACAGTATTTTTAAATGAATTACATTGCATTGGGGAAAT
ATAAATAGTAATGTCCTTTTATAGAGGAAGTCTAAAAGAAATTCTTGGGTGAATTGATAA
TCAAACATTTTTAAGAAGGTATATTTGCTAGCAAAGAAAGAAAAAATATGACAGCTTATT
TATATAGAAAACCTATGTATTCTGGGATTTTTCTTTGNTTCAAGTCTGTATATGAATATC
ATGCTATCCCTTCCCCCGCCTTAATTAATTCTANAAGTACT

Sequence 5760

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGAAGGCACCTACAAAACGAAAGTGCCTA
GGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGCTCAGTCATTTTCANAAAGGT
TTTTCCAATTATCATTTTANAGATGAGGAAACTGAAGCTCAGGGAGGCTAGGAAACTTAT
CCAAAGCCTNTTAAGAGGCTATGTTAGTCANACTGGGCTAACAGCTGTAACAACCCCANA
ATTTAAATGGCTTAACACATTAGGAGTTTATTTGTTATTGCCATAACAATTCAGGGTGTA
TGTTTGGCAGGTAGTCTACACAGTGATTCAGGGACCCAGGCTCCTTCCCTCTGGNGGCTT
TTTCTCCCTCTAGTGCTGGGAGCTCTCCATGCAGATGGTGGATGGAGAAAGAGAACAAAA
AGTGGGGGATTTTTATAGGCCAGGCCTGGAATTGGCCCACATCACTTCCACACACATTCC
ACTGGCCAGAATGCAGTCACGTGATCGTAGCTAACTGCAAGGAAGGTTGGAAAATG

Sequence 5761

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTNCAACATTAAACTCTGATTTATTGGGGGGTAA
AGCATGTTATAGTGTTCCAGCTTCACTTTTTTTCTGAATGGCTATCCANNTGTCCCAAGA
TCATTTGNTGAATAATTCATTTTCCCCCATTTGAAATGACACCTTTTCGTATACTAAAGT
CCCAAGTCTCTTANTTATAAAACAGTAATAAACCCTTGAAACAGGCATTTTCCTAAAANA
CATTTTGTTTAANNAANACAGTTTTCCCCCGCGTTAATTAATTCTAGAAGTACN

Sequence 5762

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGANACAGGGTCTCACTCTGTCACCCAGGCTGG
AGTGCAGTGGCGCAATCTCAGCTCACTGCAGCCTCTGCCTCCCAGGTTCAAGCGGTTCTC
CTGCCTCAGTCTCCCGAGTAGCTGGGATTACACCACCACACCTGGCTAATTTTTGTATTT
TTGGTATANACGGGTTTTCGCCATGTTGGCCAGGCTGGTGTCAACTCCTGATCTCAAGTG
ATCTGCCAGCCTCGGCCTCCCAAAGTGCTATTACAGGCGTGAGCCACCACGCCTGGCTTA
GGCTGCTTAAATATTCTTTCTTAGGTATCCTTGGTTTTGGAAAAAAAAAAGAATAACAGAA
AACTAAAAATTCCCAGTGGCAGTCTCTGTATCACTGGAATTTAACTTTTTGTTTGT

Sequence 5763

TTTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTC
AGTAGAATTTATTGGTTTGCTGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAG
AAAATGCAGAAAATTTCAAGAAAAACATTTAAATTGTGCTCATAGTGAAACTGAGAGGTG
ACCACTCTTAATATTTTGTGGCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCAC
ATAAACTTTCTCAAAGGCCATTAAATACTTTTCCATAGCCTGATTTTTTGTGACCACATA
GTATCCTATTATATTGATAATACCATAATTTACCTAACCCATTTTTATATATTTGGATTT
TTTCCAATTCATCATTATTATGAATAATGGTGTATCTCAGTGGTTATTACTTTGCACTGC

Table 1

ATTTCTTATGAAAGTATTGAGTAAAAGGAAGTAAAGCCCTCTCANAGTGTTTTGNAGGCT
GTCACATTTNACTCCATAATGTCCTAGTGTTGTTGCCACCAGTGATATATGAAGGTACCC
ACTGAAATGTCACACCTTTTTTTGGNTTTCCTTTTTTTAAAATNAAAAATAAAAAA

Sequence 5764

CTCCACCGCGGTGGCCGGCCCGCTTTTTTTTTTTTTTTTTNATNATANATAGGANGAAGGG
ATTTCAACTCTTTGTNGGCCNAGCCTGGAAGTGGCAATTGGCAATGATNNTNAAGCTTCA
CCANAACCTTNACCTCCCAGGTTTCAAGCCGCTTTCTCCTGCCTNGGCCTTCCGGAGATA
GCTGGGAATTACAAGGCATTGCACTACACAACGCCNGGCTAATTTTGAATTTTTTTAAGT
AGAAGACCGGGGGTNTNCATACTATGTTTGGGGTAAAGGGCTGGGGTTCTTCGNAANCTT
CTCCCGGAACTCTTATAAGGGTTNNAAATCCAACACCCGGCTCTTTAAATTTTAAATTTT
CNTAAGNAAAAGTTANNTNNTTTCGGAGGGGGGNGNGGNCCCCGGGTAACNCCAAGACTT
TTTTGGTTTCCCCTTTTTAAGATGGAGGGGGT

Sequence 5765

NCGCTTTTTTTTTTTTTTTGGGTTTCAATAAAANTTTATTTNAAAAAANCNGGTAGTGGG
GCTGGGANTGGGCNAACTTTNGAGGAATAGCCATTTCTTTATAAATTCTGAACATGAGTA
CTTTAAAAAAAATGTAGCAAAATATCTTCTACTAATTATGTGGGTTCATCTTTTCCACCC
TAGTTGTATCATATTTTTGAATGGAACAGNAATTTCCTGTTTTTTGAATTTTTTTTTAAA
AAATAGGTAANACAAGGATTTGGCTGATTCCCTTAATAACCCTGGCCTGGGGTTTTATTT
TCCCCATTCTTGGTCTTTCAGTATGGATCTAGGGCCTTCTGGGAAAGTTTGAATGGGGGG
GAGNCGTTCTAAACAAAAATAGGCTACCCNTAATAACCCTAGGACCAGGATGACATNATT
NCTTNCCCGTGTGGCCAGGGTAGGGACCANTTNAGAATGGGNTTTCCTCTAGGGGGAAAA

Sequence 5766

ACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTNTAAANNTTTNTTNAAAAAAAACCCCCNNNNGGGCCNACTTTTNTTTTATTTNA
TCNTTTAAGGGGCCAATTTTTAAAAAGNAAAGGGGAATGAANCCNTTTNTANTTAAGATC
CNTNNGNCNGANCTTTTAANGTAAAAAAAAAAAA

Sequence 5767

GCGAAATTGGGAGACTCCACCGCCGGGTGGGGCCGGGCCGCTTTTTTTTTTTTTTTTTAT
TATAAANANNNGGGGGGGGGGAAAGGAATGGAAAAAAAAAATTTTTCANCTTCAAAAGTT
ATTTTTTGGGTTACCTTTTTAAAAANAATTTCCAAATNGCCTTGGNGAACAACTTATGAA
CCCCAGGCCTTATTAAAACAATTTTTTCAGGAAATAGGAAGGNTGGGACTTTNAATTNGC
CNGTTGGAAAAAATNGNATTCAACCAATTANCCANAATTGGAAAAANAAGGGGTTTTTTT
ANANAAAAAAAATTAAACAGNTANTGGNATCAANTAANAANCTTTTGNTTATCCAAGNAT
TTTGNTAAAGTAAAAANAATTTTTAAAAAAAATTAANCTTTGGAANTTATTTAAAAAAAC
CTTAAAAAAATTCCAATTT

Sequence 5768

AGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTT
TGANAGANACAGGGTCTCACCCAGGCTGGCGNGCAGNGGTACAATCACGGCTTACGCATT
CTNGACCTCCCAGGCTCAGGCNACCCTATNAGCTCANCCTCCCAAGTAGTGGGAATTACA
NGCACGNGCCACCATACCNTGGCTTATTNTNATAGAGATGGGGNTTTGCCTGNGNTTCNA
AAAANTAANACCNAGGGCTTGNAATTCCNTGGGACATNAACCTCTTTAAANACTCCTGCC
CAGCCTATAATTTAAATTTCTAGGAAAGNNACCNCTCNAGGGGG

Sequence 5769

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTNGANACGGANTCTCNCTCTGTCNCCCANGCTGGANTGCAANGGC
GGNANCTCGGCTNANTGCAAGCTCCNCCTCCCGGGTTCACNCCANTCTCCTGCCTAAACC
TCCCAAAAANCNGGNACTANAAGGCCCCCGTAAANNAACCCCCGGAAAAATTTTTGAAAT
TTAAAAAAAAAAAAAANGGNGGNTTCANCCNCCCATTAAACCNGNNANGNNTCTTTGATNT
AACTTANACCAACCCTAAAANTNGAACACAACCCTTNAACNCNANCCTTNAAACANATCA
CCAAAAAGTNCTNTAGGGAAATAACAGAGCANTGNANACCAANTTGCAANCCCAACNCAT
TNTTNTTCNTTTTTAATTA

Sequence 5770

ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTGGGAAGGGAGTGGTTTAGGGAAGACTCGAAAGTGACAATGGAGCTATCAA
GTTCAAGAAGGAGTTANTAGGGGAGGAGGCTGCAAGAANAANTGCACNCCTGGAGGCAAG
AACAGCATGTNTCCCCNNAAANTACANANGNCNNCCCGGCCCANGCTNGATGAAAAAAAG

Table 1

GGNCAANCNNAAAAAGGNAATTGAACAANGANTACCCCCAAACACTAANACCTNNAAAAN
NTNCCCCTGANCACCCCAGATNNNCACCACCCCCCCCNCTTAAANANCCCTACCCAAANC
GNGGACNNNGANGAATAACNANGNTGNTGAAGCNCACCCGTGCCCGGCCCTGAACTTTTT
GTAAAGGCAANAGAACCACTGGGAGNGGAGAAGGAACAATTGACNTCCCCGCCTTAATTA
AATCTAAAANTACNCTCAAGGGGGGGC

Sequence 5771

TTTTTTTTTTTTTTTTTTTTTTTTTCCCCAAGAGAAGATGCCATTTTCATCACAACATG
TTTACATACTCAAGGTAGGAACTTNAACANTTTGCTCCTTNTGACCATACCCATTTACAT
AAACATATGCAGGGCTCCCCTGGCCTGCCGGCAGCTATCCACACCAAAAAGAGGAAAAGG
TAGACTGGNAANACTCAGGCTTNCAAGTTATT

Sequence 5772

ATTGGAGCCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTGTTTTTTTTTTTTGGGATGCT
CAACCTATAAGTACCCAAAGGCTCTATTTCAGTAGAATTTATTGGTTNGCTGATTATAGC
AGNGACATAGTTGCATNCTANAGACCTTACAAAANGCANAAAATTTCAAGAAAAACGTTT
AAANNGNGCTCATAGTGAAACATGANAGGNGACCACTCTTAATATTNTGNGGCATAAGCA
TTCCAGNNTTTTATCTTCCTCAAAGTTTCACATAAACTTTCTCAAAGGCCATT

Sequence 5773

GCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAAAAAAAAAANANTNGGC
CCNNNNCCCNAAGAGAAAAAAAAAAATNTNTNANTTTNGNAAANCCCCCCCCCNNCNNAA
AAAAAAAAANTTNNCCCCCCCCCCCCCCNAAAANNNNAAAAAAAAAAAGGCCCCCCCCCCC
CCCCCCNNANNNTTTTTTTTTTNAAAAAAAAAAAAANANAAAAANTNGGGGGGNGGGGGNA
AAAAAAAAANCTNAAAAAAAAAANNNNNCCCCCCCNAAAAANNAAAAATNTNAAAAANAA
AAAGGGNNNCCCCCCNCCCCCNCCCNNAAAAAAAAAAAAAAAAAATTNAAAGGGGGGGNC
CCCCAAAAAAAAAANTTTCCCNTTNACCGGGGGAAAAAACCCCCTTTAAAAAAAAAAAAA
A

Sequence 5774

CCTCCACCGCGGTGGCGGCCGCTTTTTTTTTTNTTTTTTTTTTTNNTTTTTTTTTTTTTTT
TTTNNTTTTNNNTTNTTNTTTTNTTTTNTTTTTTTTTTTNAAAAAAAAAAAANNCNCCTTT
NNTTATANTGAAAGCNANCNAAAAAAAAAANAAAAAANAAAAANGGANGNNNCAAAAANAA
AAAAAAAAAAANANACTNTTAANAAAAACNCCCCCCCCCNCCCCNNCCTTNCTTNNGAGGA
GGGGGNAAAAAAACCNNAAAAAAAAAAAAAANGANNAACTTNNTNAAAAAAAAAAAAAAAC
CCCCCCCCCNNNAAAAAAANNCCCCCCCCCCCNAAAAAAAAAAAAAAAAAAAAAGGGGGGG
GGGNNNCCCCCCCCCCCNNTTTTTTTTTNNAAAAAAAAAAAAAAANNCCCCCCCCCNA

Sequence 5775

TAGGGGGGGGGGGGGGGGNNNNANAGAGAAAAAAAAAANCCCNCNTCTTTTTTNNANNC
CCCCCCCCCCCCCCANAAAAAAAANCCCCNNNCCCCCCNCGGGGGGGNATNNNCCCCCCN
NGNGGNGGNGGGGGGGGGGNTTTTTTTTTTNTTNGGGGGGGGGGGGGGGGGGGGGNN
ANNNNNNNNCCCCCCCNCCCCCCCCNGGNAGGGGGGGGGCCCCGGCCNTTTCTTNTTTTT
TTTTTTTTTTTTTT

Sequence 5776

CTCCACCGCGGTGGCGGCCGCTTNATATNNCTGANTCATNTGTTTGAGGAGCGGTCAGTT
GACNCNATNGANCGGGCAAGGGATCCCTTACACCTGAGACGAACCTACAGAACAGCACCG
TACCAGAGGTGGAAGTCCAAGTCANACGCCAGAAGGACTGCCTTCACTTGAGCAACCAAN
GAGTGTCACTTGTACCCCCACGCGTTNTTCATCATTANCAAGTACCNGGNGGTGGATTTT
CNATGCTNGAACTGAGGCAGGCATTCTTTANCCTGAAACACCAAGAGGTGGTTAAAGCCA
TATTAGGAGTAGCGAGGAATCTGATTCCAAACAAAAACCAGGCTCCATCTACTCTTTTGA
AGCTTCTGCCCAACTTGGATTGTTTCTTAGGAGAACCCGCGTTTANTTTAATTCTAGAAA
NTAACTCTNCNA

Sequence 5777

CGCGGTGGCGGCCGCNTTTTTTTNTATTTTTTTTTTTTTTNAGAAGGCGGGGGATAAAGT
TAAGGTGTAGAGTATTTATTAGGTTATTTGGCTTGTTTGTTTGTTTATGCAAATCATGTT
AGGTTGTTATCAGCTTAAAATAATGGGTTATAAGATAGTATGTNCTGGCCTCATGGNAAC
CTCAAACCAAAATACATACAATGGATACACGAAAGATAAAAAGCAAGAAACTAAATCATG
TCTTCAGAGAAAATCATCTTCACTAAAAGGAAGACAGAAAGGAAAGAAATAAGGAAGAGA
AGATCACAAAACAACTGGAAAAGAAATAACAAAACGGCAGGAGNAAATCCNTATTTATGA
ACAATAATATGGAANGGAAANCAACTAAANCNCCAAACAAAACACAGACNGGCTGAANGA
ATNNAAAAAAAAAAAAACAAAANCNGNGGCCCCCAAAAAACNNCCCNNANCCCAAAAANAC

Table 1

NCNCCCCAACCNGAAAAAAAAGGGAGAAAAAAAAAAAAAANNCCANNCCNGGGGAAACCC
AAAAAAACCNAAAAAANCCNNNCCCCCCACCCAAAAAAAAAAAAAANNCAAGGGCCANGGA
AGGGNAAAAAAAAA
Sequence 5778
TCCAACGCGGTGGCGGCCGCTTTTTTTTTTNTTTTTTTTTTTTTTAAAGNNGGNGGNGNN
TTTTTTTTAAAAAAAATTNNAAAAAAAANTTTNANNNAAAAAAAAAAAAANAAAAANNAA
AAAAGAAAANTTTTTAAAAAAAAAAANGGGGGGGNNANGNAAANAAACANTTNAAAAAAA
AAAAAAAAAGGGGGGGAAAAACCCCCAAAAAAAAAAAAAAAAAAAAAAANNNNAANAAAA
AAATNGGGAAAAAAAACCCNAAAAANAAAAAGGNAAAAAAGGGGTTTNAAAAAAAAAAAA
NNACCNAAAAAAANCCCCTTTAAAAAAAAAAAAAAANGAANAGGGNAAAAAAANGGGAAA
AANTTNGAANGGGNTTNTNAAAAAAANTAAAAAGNNAAAATTTGNNAAAAAAAAAGCCCN
TNAAAAANAAAAANNTAAAANNNNNANAAAANNNNNNNNNNANANNNNNNNAANNNNNA
NNANNNNNTTNNAANNNNTNAAAANNNAAAAAAAAAAAAAAAAANNGANGNNNNNNAAA
AAAAAAAAAAAAAA
Sequence 5779
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAATATGCCCACCCATT
TCAGGTTGAGCCACGGATAAGGAGGGCTTANCTCATGTCTCCTGTGGGAATTGAGGCATC
TCAGGAAACAGTATANAGTTGGTACAGTTAGAATGANAANAAGCCTGGGGAAAGAAACCA
AGAGTGANAAATGCGTGGCTATTTTGACTTAGCTGGAGCAACCCTCTCATAACAGGCTGG
GAAGTGGACCCGCGTTAATTAACGCGGGGGAAAT
Sequence 5780
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTNGGACCAGAGAGGCCCA
AAACTANCANCCTGTCCTNCTNAGNNGCCNNAGCATCCCTTCATCATTTTGTTGCCCTTC
TATGGGCCTANTTNAGGTCTNANAGGCATANNTNNAAAATNNTNATTGNTATTTATTTAT
TCTAGAGATAAGGTCTTGCTATGTTTCCCAGGCTGGTNTTGAACTCCTGGCCNGAANCAA
TCCNCCTGCANCAGCCTCCNAAAGTGCTGGGATTACAGGCATNAGCCACCACNTTTGGTC
ANACAGGCATANTTTTACAAATATGTGGGTGGATAAATGCTGTCCAGACTTACTTCATNA
CTTTNTATAAATTGAATGCTTTTTGGTTTGGAAATA
Sequence 5781
CTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTNTTNTTTTTTTTCTGGCNCTAAAGGGGGNANAGGGGGTGCTNTAGGGTAAATA
CNGNCCCNATTTCAAANATTTTTA
Sequence 5782
ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTGGGAATNATTATTTAATGAGAAAAAAATCCACGTGTNTACAACATTTCAA
AACANAAGTTAAAT
Sequence 5783
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGGAAGGCACCTA
CAAAACGAAAGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGCTCA
GTCATTTTCANAAAGGTTTTTCCAATTATCATTTTAAAGATGAGGAAACTGAANCTCAGG
GNGGNTANGAAACTTATCCAAAGCCTNTTAANAGGCTATTNTTTANTTCANACTGGGCTA
ACANTCTGTNACAACCCCAAAA
Sequence 5784
CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTNACATTAAACTCTGATTTATTGNGGGGTAAAGCATGTTATAGTGTTCCA
GCTTCACTTTTTTTCTGAATGGCTATCCAGTTGTCCCAANANCATTTGTTGAANAATTCA
TTTTCCCCCATTTGAAATGACACCTTTTNGTATACTAAAGTCCCAAGTNTTTTAGTTATA
AAACAGTNNTAAACCCTTGAAACAGGCATTTTCCTAAAATACATTTTGTTTAANTAANAC
AGTTTTCCCCCNCGTTAATTAATTCTANAAGTACTCTNGAGGGGGGGCCCGG
Sequence 5785
TATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGGAANCCATTTATA
TNAAATGNCCAAAANAGGGAAAACCTNTTTTAAANNACAAAAACCCAAANTNNNTCANCA
NTTNCCANGGGAGGANNAAAANNGGAGGGGGAAAATTANTNCTTTACANGGGNANNANAA
AATTTTTNTCNNAACCTNNANAAANGNGGNGCCNANANAANTTTCTTGGATGTANNAAAA
GCCCCTNATTGTTCNCNTTNAAGGGGANTTGAATTTTAGGGTTTTTNGAATTTNATTCTC
AATTAAAAAAAAACC

Table 1

Sequence 5786
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGCAAAACTCCC
TACAGCCGAGCCCCGTTCGGNGCCTTTTCTTTTTTTTTTCTTTAATGGAGTGAAATCTAC
TTTNCNCAGGAAGCCTGCAAATCACATTT
Sequence 5787
CACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAANTANAAAGCTACTT
TTAANNCTTNGGGGNGANCCCCNNANNAAAAAAAAACNCTGGGAAGGGGAAACCCCC
Sequence 5788
CGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGNGAATGAATTTAATATA
ATCTCTATAAAAACCCTAANNAGGNCAGTTTTTNACAGAAATANAAATTATTTTTTTTTT
TTATTTTTTTTANATGGAGTCTCACTNTATTGCCAGGCTGGAGTGCAGTGGNTGTANTGG
CCTGATNTNGGCTNACTGCAACCTCTGCCTCCCGGATTCAAGTGATTNTNCTGCCTCAGC
CTCCCGAGCAGCTGGGAANACAGGCACCCCGCCTTAATTAATTTTAGAAGTACTNNTNNA
GGGGGGGGGGC
Sequence 5789
AAACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTT
TTTTTTTTTTTGAGGNGAATGAATTTAATATAATCTCTATAAAAACCCTAATCACACAGT
TTTTTACAGAAATATANTTTATTTTTTTTTTTTATTTTTTTTANATGGAGTCTCACTCTA
TTGCCAGGCTGGAGTGCAGTGGCTGTAGTGGCCTGATCTCGGCTCACTGCAACCTCTGCC
TCCCGGATTCAAGATGATTCTCCTGCCTCAGCCTCCCGAGCAGCTGGGAATACAGGCNCC
CGCCTTAATTAATTCTAGAAGTACT
Sequence 5790
ACTCCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAANGGGGNCANCCTATTTTNAGGGNGC
TTTCATTATTTTATTTTTTANACAAANNCANACNCNTNGCTANAANCAAANCAAAAATTT

Sequence 5791
TTTTTTTTTTTTTTTTTTTTTTTGGGATGCTCAACCTATAATNCCCAAAGGCTCTATTTC
AGTANAATTTATTGGTTTGCTGATTATAGCAGGGACATAGTTGCATTCTAGAGACCTTAG
AAAATGCATGAAAATTTCANGAAAAACATTTAAATTGTNGCTCATAGTTGAAACCTGAAN
AGGNNGACCCACCTCTTTAATAATTTTTGNGGGGGCATANAGNCATTTCNCAGNNCCCTT
TTTTTANTCCTTNTCNTTCAAAAGGTTTTCCACCAATAAAGACCTTTTTCNTTTCANAGA
GGAGGCCCANTTTTAAAAAATTACCTTTTTTTTCCCANTAANGCACCTNGGNATTTTTTTT
TTTTGGNTGGNACCCCNCCNACTNNAGNGGAATCCCCTCAATTTTAATTNAATGTGGGAA
GTNANAATTANCCCCCAGTTAAANTTTNTNACCGCNTTAAAAACCCCCCAATTTTTTTTN
TNAATTNAATAAATTTTTTNGGGG
Sequence 5792
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTGGGGGAGAGAATCATTNNTGCAGGCTGCANANAAAGCACTTGCTAGANAAATTT
TCATAACTATAAGGGANCAAAAAACTAATAGCCAAGACCATGGGATAAAGACCTGGAAAG
CATTTATCCTATTTATTCATTTCGNCGCTCATTTATTTTTTTGTTTATTTNATTGGAATA
TAAGCTCTATAAAATAAAATGGACCTTGCTGCTCTTGCCGTATCACTGTATGTCAAGAAG
TTATCATACAGTTTGAGGCANAGTGGGCACTAAACAAATGTTTATTTTGATGAGGAAAAG
ATGGATAAATTGANTGACNAAGGTTGTGACATATTTCTTGTCCAAAAAAAAATGA
Sequence 5793
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTGGGATGCACAACCTATAANA
CCNAAAGGCTCTATTTAANGAGAANATANNGGNTAGNNGNTTATACCAGANACNTANNTG
CATTCNACAGACCTTACAAANTGCANAAAANNNNAAGAAAAACNTTNAAATNNNGCTCAN
AAGGAAAACTGGAAAGGTGACCNCTCNTAATATTTATGGGGCATAACCATTCCATGTCTT
TNATCTTTCTCAAAGTTTCACATAACCTTTCTCAAAGGCCATATAAATACTTTTCCATAA
NCCTGATTTTTTGNGACCNCATNGTATCNTATTATATTTGATAATACCATAATTT
Sequence 5794
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTNATNACCCNCTCACAGGACCAACTTTNATTTAATTAAT
TCATTAANGGNCAAATTTTNAAAAGNAAAGGGAANGAANCCATTNGTAATTAAAATNCAT
ANNCANANCTTNAANGNAAAAAAA

Table 1

Sequence 5795
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAGGAAGGCACCTA
CAAAACGAAAGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGCTCA
GTCATTTTCANAAAGGTTTTTCCAATTATCATTTTANAGATGAGGAAACTGAAGCTNAGG
GGAGGGCTTTGGGAAAACCTTATCCAAAGCCCTNTTTAAGAGGNTTNTNTTAGTCANNAC
TTGGGCTAACANGCGTGTAACAACCCCAGAATTTAAATGGCTTAACACATTAGGAGTTTA
TTTGTTATTGCCANAACAATTCAGGGTGTATGTTTGGCAGGTAGTCTACACAGTGATTCA
GGGACCCAGGCTCCTTCC
Sequence 5796
CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTAGNACAAAAATNTGGGTTTTATTTATTCATTTGTAAACTCAAGCCAGGNC
TCTATTCCACTTTTTCCAATTATTTGCTTTTGANAGTCTCAGGATTATCCTTCCTTCCTC
TCCTTCCACATTTTCTCCCCTGNCCCTTNNTCCTGGGCANGCTTCTCTAGTCCCCNACGG
TCTTTGTTTAAAACACAATGCGGGNTTGGANATTAACCTTNACTCTCTCTTTCANAAAAA
AATGCC
Sequence 5797
TTAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTT
TTTTTNANGNCTGNTCTTACNTATTTTTTTTTAAACTTTTATTTCAGTAGNGTTNGGGGA
ACAAGTAAGTGTTTGGTTGCATGG
Sequence 5798
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTGCAGACGGAGATNNGCTCTGNCACCCA
GGCTGGAGTGCAATGGCATGATCTTGGCTCACTGCAACCTCCACGTCCCGGGTACAAGCG
ATTCTCNTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGTGTGTGCAACCACATCCAGG
NAATNTTGNATTTTTAGTAGAGANGGGATTNCACCATGTTGGCCAGGCTGGNCTTGAACT
CCTGACCTTGTGATCTGCCTGNCTTGGCCTNCAAAGTGCTGGGATTATAGGCATGAGCCA
CCGCGCCCAGCTAGAAAATACATTTTTGAAGCAATAATAAAGATGTGAACCAAATTTAGT
GTTCTCAACATGTCAAGCCTTACCGACAATGCAAAGCAATAGAAACTCAAAGCAATAGAA
ACTGCTGGNGAGATATAACCTGGTTCAACCCGGTGGAAATACTTTGGCATTAAACATGCC
AAACTAAAAGTAAATACCCACATAATCTACATTCTGGCAATTTCACCACTAGGCATTTAC
CTTAAAAAAAAATCTCAAACATATGCCCCAAAGATNTGTAAAAAGAATGCTTATNGGAACA
CTATTCTTNACANGGAAAAATCC
Sequence 5799
CGCTTTTTTTTTTTTTTTTTTTNTNNNTTTTTGGGGTCACATGCGCATTTATTATTGTCTG
GAACATCAAGGCCTTTCCTCCCCTGGCAGTGGCACAAGGGAGGGCCAACTNTNAAGAGGC
GGCACGCTTGCCACCAACAGCAGGCCCATGGGGTGGGCAGGGTCATGGGCGGCANAAACA
GCGCCTTCAGCTTGCCTGACAGGCTGGCGATCTCAGGATCCTGGGCTTCGTAGGGACTTG
ACCAAGCGAGCAAAACTTAAGGACACCTTCCCGTCGCAACTGAACCATAGCTTTGATAAC
CCTCTGCTGGATCTGGCGTGGCCACGGGCAGNACGAATTGCAGCATCTTACCCATGTCGT
TGCAGGCGTTATCCCGAGCCTNGTCCATGCCGCACTGCATTTNTTCGGGGCGGANAAACG
CCTGGATCACCTCCGCGAGGGACCACCTTTGCTTGCTTCAAGCGCTCAAANGCCNNCCGT
TGGNGTCAAGGCGGACNCCATANGGCGGTTTTGAAAACTNTTAGGTTCANCGGGAGGTAA
AATGGGAAAANTCACGAATAAANNAGCCACGTCTAAAAACCGTTCCCCCCGGGTTAATTA
ATTNTTANAAATNNTTTTTAAGGGGGGG
Sequence 5800
CCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGAAGNCACCT
ACNNAACGAAAGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGCTC
AGTCATTTTCAGAAAGGTTTTTCCAATTATCATTTTAGAGATGAGGAAACTGAACCTCAG
GGAGGCTAGGAAACTTATCCAAAGCCTTTTAANAAGCTATGTTAAGTCANACTGGGCTAA
CAGCTGTAACAACCCCAAGAATTTAAATGGCTTNACACATTAGGGAGTTTATTTTGTTAT
TGCCATAACAATTCAAGGGTGGTNTTTTTTGGCAANGTANTNTACACAGTGATTTAAGGG
ANCCCAGGCTCCTTCCCTTTGGGG
Sequence 5801
GACTACTATAGGGGGCGAATTGGAGCTCACCGCGGTGGCGGCCGCTTTTTTTTTTTTTTT
TTTTTTTTTTNGGGAAGGAGTTTCACTCCTGTTGCCAAGGCTGGAGTGCAATGGCGCAAT
TAGGCTCACTGCAACCTCCTCTTCCCGGGCTCAAGTGATTCTCCTGCCTCAGCCTCCCGA
GTAGCTGGGATTACAGGTACCCACCACCATGCCCAGCTAATTTTTTGTATTTTTAATAGA
GATGGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAGGTGATCCACC

Table 1

TGCCTCGGCCTTCCAAAGTGCTGGGATTACAGGTGTGAGCCATGGTACCCAACCTTCCTC
ANCATTTTTTGTCTGTCCCCACACACANGCTNANCAACCAAAGAAAGCCAAGGGCATATA
GGCAGGGCAACAACATCTGTGCACCTTGCGGGCTGCCTGCTAATTTTCCTANAAACATAT
TTTTTTAAAACATTCCTTAAAAAAAA
Sequence 5802
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACGGATTTTCACTC
TTGTTGCCCAGGCTGGAGTGCAATGGGCGGGGGTCTTGGCTCACCGCAACCTCTGCCTCC
CTGGTTCAAGCAATTCTTCTCCTCACCTCCCGAGTAGCTGGGATTACAGGCACCTGCCAC
CACGCCCTAGCTAATTTTTGTATTTTTAGTAGAGACAGGGTCTCACTGACTTCAGGTGAC
GCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCATCACGCCCAGCTGGA
ACCATTATAACTTGTAACAAAATATAGAATATAAATTATTGGTTTATNGGGGAGTTCAAA
TATGAATTTTAATAAAACCAAATCTTTTACAAGTTGAATATAACATTTCTTACTGTGCCC
ATTTAGACAGGGGTCCATCCAAAGGGCATTTTATCTGATTTTCTGAAAGATCATTAAGTA
TCTAATTTTAGATAACCCGCGTTAATTAATTCTAGAAGTACTCTCGAGGGGGGGC
Sequence 5803
CCGCGGTGGCGGCCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTNTTTTTANATGGAGTCTTA
CTCCGTCACCCAGGCTGGAGTGTGGTGGTGTGATCTCANCTCACAGCAACCTGACCTNAN
GTGATTCACCCGCCTCTGTCTCCCAAANTGCTGGGATTACAGGCGTGAGCCACTGNGCCC
GGCGTNTTTGAATTTTTTAAACTGAAGTTNAATTGCCTTTGANTTTGATCATTNACTATT
TGGCATTTGNATTTCTTTTGTTAATTATCTGCTCAAGCTCTAATTTCATAANTGGAAATT
TAATGGATTAACATATNACACCCACTATCACCCGCNTTAATTAATTCTAGAAGTACTCTN
GAGGGGGGGCCCGG
Sequence 5804
CGCTTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGACTNACTTTGTCNCCANGCTGNAGTGT
GGAGTGCAGTGNCACAATCTTGGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGCNATTC
TCCTGCTTCAGCCTCCTAAGTAGCTGGGATTACAGGCACACCCCACCACACCCGNNTAAN
TTTTATATTTTNAGTAGAANTGGGGNNCCACCATGTTGGCCAGGCTGGTCTAGAANTNNT
GACCTGGNGANCCACCTGCCTCGGGTTCCCAAAGTGTGANTCACTGNACCCAGCCTTGCT
NAATNNTTTTAAAACTTTTTTTTTCTGACATCTTGAGTTAAAAGNCTTTGGNTATTCTTT
GAGACNGGATCTGGCTCTTTTACCCAACCTGGAGNGCAATGGNTCAAATCACAGGTANNT
GTCCCTTNGNCTTCTGGGCTTCNGCCCAAACCTCACAGTAACANACACTGTTGGGAAAAC
ACACCCATTTNACTTTTTTA
Sequence 5805
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTNNGGGGTCTGTATTTCTTA
TTAAAATGATTGGCTAAGACCAAAGATCTTGTCCCTGNNGNNCTCTATTGTATTCCTTGT
TCCTAAAAGGTTCCTGGGACATACAGTTCAAAAATATATATCTGATGTACNAATGACTGA
ATAAGTGAATGTGACCATAACGCAGAAATTCCTAAGAAATGCTTTGTCCTGATAGGTCTC
CAGTCTCTGCAGAGGACAAANAAAAATATTCTAAGGTCCCAAAAAGTC
Sequence 5806
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGGAGNACTATGATAGG
TGAAATGGTATGACTATAAAAAGGATTTGTTTCTTTTTGTCTCCTGGAATGACATGATGC
CTTTCTAGANAAAGAAAAATTGCAGGCTACAGGAAAATGATAAAAACTACTGGATTCATT
TANACTATTCGATTTAAGGAAGGTCAACCACTTNTTTAACATCAAGCTAAAAGTGGGGGA
AAGTCTCANTCTCCAGGTAGGTCTNCTCTCACACTGTCCTGGGTGGCANGCGCTGTTTAT
ACATGCCCGCTATCGCTCTGGCTTGCCTGTANATCATNTGGCCGACGGGACATCCCAGTA
AATGCCATGTGCCAATCAGTCCCGGCTGACATTCANTAAACTTTTTTCCAGGACTTCACC
CACTGTCACCAAAAGGCCTGACCACCTTAAAATTATAGTCCTGGGGAGTTAAACTTTGAG
CCTGCTGTACAAAATTCAAANGCACTGGTGTGGCTTTGNGTAAATGTTTTTAANATGAAA
GCCCTTGGACAGGATCTTTTAACCCCAAAAAACCAATGGTCAAACCATTTTGTCAGGGAN
NAAATTNTNCAATGNAAATTTTTTACTTGACCCAAACTTGCTTTTTTTTTATTGGATCCCC
CCATTNNACCCAAGCTTTTTNTCCGTTCTGGACCCCTTTTATCCACTTGNNNACCCNTGG
TGGGGGGCAATNTTGGACTGTCAANTTCCCTTNAACCCAAGTTANCCAAANACCTCTGGA
AGGGNTTTGGGCAGNNANAACTTTTATTTTTT
Sequence 5807
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGAAGATGAAGAAATT
TCACTCAAGTATTTTGTTACTTTAAGATTCAATGCTGGACACTAGACCAGCTATAACATT
TTCAGATAGAGTGACTTCATGCGTGAAATGATCACATACAATGAAGAGGTTTTAAAAAAT

Table 1

858/863

ACAGATGACATAACTTGTTCAGTTGAAGAAAATTAAAATACTGATATAAACTAAATCATT
CTCCTCTTCATTTTAGGGGGATTTTTCTCTGCAATTGTACTGATTTATGACTAGAAAGCT
GAAGACTGATTTGAGCCTCTTTAGCAATACTCTATTTCACCATTTATCTTCCAAAGAATT
ATGGCTATTTTATTTCTTCCAATGAAGCTGGAAAATTATAATATGCCAGCAGATCAGTNG
AAATGTAAAAATATTAGTAGTTACCCTT

Sequence 5808

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAANGATNGNTTTCN
TTTAATNTNAAAGAGATAAGTGGACTAACGNGGATAAAGGGCTCCATCTTGGACAANTTG
ATCAGTCTTTTCTTCTGTGCTGAACANGGCCTGCCAANAACANGAAATTCAACNCCATTT
ACAAAGCTNTCTTGNCTTACTCTCANANAAAGCCATNACTGTTCACATCATTCAAGANGC
TGNCAAGCTNACACCTTTNTNAAATAAGNGNTANCTTTTTGGG

Sequence 5809

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTACTNGAATTGTTGTTATAG
TGCTTCCGTTATTTATTTTTATTTTTTTTATTATACTTTAAGTTTTAGGGTACATGTGCA
CAACGTGCAGGTTTGCTACATATGTATACATGTGCCATGTTGGTGTGCTGCACTCATTAA
CTCGTNATTTATATTAGGTATATATACGTGTTCATTGTACCCTTATCGACTTTGCAGNAT
GCTTATCCATCTAACTATTNATCTTTATTTGCCTTCGTTTTTNGAGTTCCCTTATTCATC
CTAAAACAAAATATAATGCCTGACTNATAGTCANACTTNACAGTATTTTTAAATGAATTA
CATTGCATTGGGGAAATATAAATAGTAATGNCCTTTTATAGAGGAAGNCTAAAAAAAATT
TCTTGGGTGAAANTNGGATAATNCAAACATT

Sequence 5810

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGACCANAGAGGCCCC
AAACTANCAGCCTGTCCTCCTCAGTAGCCCCAGCATCCCTTNATNATTTTGTTGCCCTTN
TATGGGCCTAGTTNAGGTCTGAGAGGCATANNTTTAAAATTTTTATTGNTATTTATTTAT
TNTANAGATAAGGTCTTGCTATGTTTCCCAGGCTGGTNTTGAACTNCTGGCCTCAANCAA
TCCTTCTGCANNANCCTCCCAAAGTGCTGGGATTACAGGCATGANCCACCACGTTTGGTC
ANACAAGGCATAGTTTTTACAAATATGNGGGNGGATAAATGCTGTCCAGTCTTTACTTTC
ATNAACTTNTATCAATTGAATGCTTTTGGT

Sequence 5811

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGANAAGGAGTNTCGCT
NTGTGGTCCAGGCTGGAGTGCAGTGGTGCAATCTCAGCTCAATGCAAGCTCCGCCTCCTG
GGTTCACACCATTCTNTTGTCTCAGCCTCCCGAGTAGCTGANATTACAGCCACCTGCCAC
CACGCCCGGCTAATTTTTTGTATTTTTAGTANANATGGGGTTTCACCGTGTNAGTCAAGA
TGATCTCGATCTTCTGACCTNGTGATCCACCCGCCTNANCCTCCCAAAGTGCTGGGATTA
CAGGCGNGAGCCACCGCACCCGGCCTTTCCTGTCATTTTTAAATGGATATAATGGGGAGG
TTATTCAAGGAAACNCTGCCTTCTTAAAAAATNTNCCNNTTCCCCTGNANTGNGTNTTAA
AAACCTTTTTNAAATAANNTGTTTATTNAAAAACAAANATATTTTCTAAAGTANTNTGGA
AGCTCCCCAANGAANATNCCCCAATTTT

Sequence 5812

ACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTGANACGGAGTCTNGCTCTNTCACCCGGGGCTGGAGTGCAGTGGCGTG
ATCTCAGCTCACTGCCAGCTCCGCCTTCCGGGTTCATGCCATTCTNTTGCCTNAGCCTCC
CGAGTAGCTGGGGCTACAGGCGCCTGCCACCACGCCCGGCTAATTTTTTGTATTTTTAGT
ANANACGANATTTCACCGTGTTANCAGGATGGTCTCAATCTCCTGACCTCGTGATCCACC
CGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGNGANCCACCGCNTNCGGCCTGGACC
CTTTTAATTAANAAATTTTAAAGCAAAACTGTGGGGCGATTTTGCTGTGCATTAAAAGAA
TTGCTATAAAAGATAGAAATTCTGGGACTTAACTGGAAAAAACTTNGATTNTTTAAGGGC
CCTTTGGTNCCTTAAAAAAAT

Sequence 5813

GAANATGGAATCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGCATGATCTCAGCTCACT
GGAAGCTCTGCCTCCCAGGTTCACACCATTCTCCTGCCTCAGCCTCTCAAGCAGCTGGGA
CTACAGGCGCCAGCCGCCATGCCTGGCTAATTTTTTTTGGTATTTTTTAGTACANATGGG
GTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCTGCCCACTTCAG
CCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCATGCCCGGCCGATTTCACCTTTCA
ATGGCAATTACTATAANACAGGAAAGTTATTTATTTTTATATATTNACCTAATTTTAAGT
TACCTTATACAACCCTCATTAATAGTCTGTTANAACTANAATTTAAACTCTATGTGAATA
TGGACCTTATTTAAACAATGTAT

Table 1

Sequence 5814
ACAGAGTTTTGCTCTTGTCACCCAGGCTGGAGTACAATGGCACAATCGCGGCTCACTGCA
ACCTCCACCTCCCGGGTTCAAGTGATTCTCCTGCCTCGGCCTCCTGAGTAGCTGGGATTA
CAGGCACCTGCCACCATGCCTGGCTGTTTTTCATATTTTTAGTANAGACGGGGTTTCACC
ATGTTGGCCAGGCTGGTCTTGAGCTCGCGACCTCAGGTGATTCGCCCACCTCAGCCTCCC
AAAGTATTGGGATTACAGATGTGAGCCACTGTGCCCGGCACTTTTCTGCTTTTAAATACA
ATGATTTTANAAAGTCTGTATATGAACTTTGGGCTTGTACCTANATATCCCAGTGTGTGT
AGGGAGCCCTGTATATCTGCAAGGGGATCCATTAGACCAAGGATATTAGATCCAGCACTT
CTCCTTTTTAATGCATGTCATAAGCACATGATTTTATATCATGTCANAAAAAGGCTGTTG
ATATAAAGGAAGAGAACAAAGAATGAGAAGAACTATNTCCCGCGTTAATTAATTCTAGAA
GTACTCTCGAGGGGGGGCCCGGA
Sequence 5815
TTTTTTTTTTTTTTTTTTTTTTTTTGGACGGAGTCTTGCTCTGTTGCCCANACTANAGC
ACAGNGGTGCGATCTTGGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGCGATTCTCCTG
CCTCAGCCTCATGAGTAGCTGGGATGACAGGCGCCCACCACCACGCCGTCTAATTTTTGT
ATTTTTAGTANAGACTGGGTTTCACCATCTTGGCCAGGCTGGTCTCGAACTCCTGACCTC
AGGTGATCCGCCTGCCTCGGCCTCTCAAAGTGCTGGGATTACAGGCGTGAGCCACTGTGC
ATGGCCAGCTTGACAAACTTTCTAATTGACTGGCTCCTGTGCATTGCTCATCCTTCTCTC
TCATTTGTTAGNGGCTAGGAAAAAGAAAGAAGTTTGTTATCTGAGAAATGTGAGTCCTTT
TAAAGTCTCAGGATAACAGAGGCATTTAAAATGCAACAGCAGTCTCTTCTCACTCTTCCT
GGCACTAAATAATGACCTCTTGAAGCCACTTGCTATATGGGCTTTACACTGACTGAAGCC
AAGTAACCATAAAATGCCATATGCTGGACACCATAACCCATACCCTATAGTTCAGNAATC
TATAGCCAAACCCTATCCA
Sequence 5816
TTTTTTTTTTTTTTTTTTTTTTTTACTTGAATTGTTGTTATAGTGCTTCCGTTATTTATT
TTTATTTTTTTTATTATACTTTAAGTTTTAGGGTACATGTGCACAACGTGCAGGTTTGCT
ACATATGTATACATGTGCCATGTTGGTGTGCTGCACTCATTAACTCGTCATTTATATTAG
GTATATATACGTGTTCATTGTACCCTTATCGACTTTGCAGCATGCTTATCCATCTAACTA
TTCATCTTTATTTGCCTTCGTTTTTTGAGTTCCCTTATTCATCCTAAAACAAAATATAAT
GCCTGACTCATAGTCAGACTTCACAGTATTTTTAAATGAATTACATTGCATTGGGGAAAT
ATAAATAGTAATGTCCTTTTATAGAGGAAGTCTAAAAGAAATTCTTGGGTGAATTGATAA
TCAAACATTTTTAAGAAGGTATATTTGCTAGCAAAGAAAGAAAAAATATGACAGCTTATT
TATATANAAAACCTATGTATTCTGGGATTTTTCTTTGTTTCAAGNCTGGATATGAATATC
ATGCTATCCCTTCCCC
Sequence 5817
TTTTTTTTTTTTTTTTTTTTTTTTACTTGAATTGTTGTTATAGTGCTTCCGTTATTTATT
TTTATTTTTTTTATTATACTTTAAGTTTTAGGGTACATGTGCACAACGTGCAGGTTTGCT
ACATATGTATACATGTGCCATGTTGGTGTGCTGCACTCATTAACTCGTCATTTATATTAG
GTATATATACGTGTTCATTGTACCCTTATCGACTTTGCAGCATGCTTATCCATCTAACTA
TTCATCTTTATTTGCCTTCGTTTTTTGAGTTCCCTTATTCATCCTAAAACAAAATATAAT
GCCTGACTCATAGTCAGACTTCACAGTATTTTTAAATGAATTACATTGCATTGGGGAAAT
ATAAATAGTAATGTCCTTTTATAGAGGAAGTCTAAAAGAAATTCTTGGGTGAATTGATAA
TCAAACATTTTTAAGAAGGTATATTTGCTAGCAAAGAAAGAAAAAATATTGACAGCTTAT
TTATATAGAAAACCTATGGATTCNGGGGATTTTTCTTTGTTCAAGNCTGTATAATGAANA
TCATGGCTATCCCTTCCCCCNGCNTTAATTAATNCTANAAGGTCCTCTNCGNGGGGGGGG
CCCCGGACCCAANNTTTGGTCCCCTT
Sequence 5818
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAA
AANAACNCAGCTTTTTTTTTTTTTTTANCCANGGGNGGACAAAAAATTNAATNCCNTCACT
ATNTTTTCGNNGGAAAAACNNAAAATTATNGCCANNTTAGGGGANGCCCNCCCNNANNAG
GANCCCNCGTNAATNAATTNNAAAAGNCCNCTCGNGGGGGGGCCCG
Sequence 5819
AGTGCAGNGGCACNATTTCGGCTNACTGNAACCTNTGCCTCCNAGGTTNAAGCAATTNTN
TGCCTNAGCTGCCCNAGTAGCTANATTNACAGGNGCCTGCCACCACACCCAGCTAATTTT
TGTATTTTNAGNAAANACGGGGTTTNACCATNTTGGCCAGGCTGGTCTTGAACTCCTGAC
CTNTTNATCCATCCACCTAAACCTNTAAAAGNGCTGGGATTACAGGCGTNAACCACCGNG
TGNGGCTGGAACTNTTNTTTTTAAAACTATCAAATTTTATGAGGCTTATTCACTATCACG

Table 1

860/863

ANAACAGCATGATAAAAAAGTGCCCCCATGATTNAATTACCTCCCACTGGGTCCCTCCTA
CAACATGNGGNAATTNAANATNANATTTGGGTGGGGACACAGCCAAGCCACATNATTCCA
CCCCCGGCC

Sequence 5820

TTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGCTGAATTTATTATAATCCTTTTTTTTTTT
TTTTTTAAAGATGGAATCTCACTCTATTGCCCAGGTTGGAGTACAGNGGCGCAATCTCGG
CTCACCGCAACCTCCGCTTTCCACCTCCTGGGTTCAAGNGATTCTCCTGCCTCAGCCTCC
CTAGTAGCTGGGATTACAGGCACATGCCACCATGCCCAGCTAATTTTGTATTTTNACTAN
ANANAAGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAAGNGATCCAC
CCACCTCAGCCTCCCAAAGNGCTGGGATTANAGGCGTGAGTCACTGCACCCAGCATAATC
CTCTTTCTTAAACANAATTATTTTNATTTNATTTGGATTTTTCTATTTNACTTACTTTAC
TCTTTATGATCTTTAATATNGGAGTTACATTCAACATGACTTTATGCATTAAAATTATTT
TTCATTGGCAATCAAATAT

Sequence 5821

CCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTT
TTGGGGATGCTCAACCTATAATACCCAAAGGCTCTATTTCAGTAGAATTTATTGGTTTGC
TGATTATAGCAGTGACATAGTTGCATTCTAGAGACCTTAGAAAATGCAGAAAATTTCAAG
AAAAACATTTAAATTGTGCTCATAGTGAAACTGAGAGGTGACCACTCTTAATATTTTGTG
GCATAAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCACATAAACTTTCTCAAAGGCCA
TTAAATACTTTTCCATAGCCTGATTTTTTGTGACCACATAGTATCCTATTATATTGATAA
TACCATAATTTACCTAACCCATTTTTATATATTTGGATTTTTTCCAATTCATCATTATTA
TGAATAATGGTGTATCTCAGTGGTTATTACTTTGCACTGCATTTCTTATGAAAGTATTGA
GTAAAAGGAAGTAAAGCCCTCTCAGAGTGTTTTGTAGGCTGTCACATTTCACTCCATAAT
GGCCTAGTGTTTGGTGCCCCCAGTGATATATGAANGTACCCACTGAAATGTCCACACCTT
TTTGGGTTTCCTTTTTAAAATAAAAAATTAAA

Sequence 5822

GGCTGAGATCTTCTTATTCAACCCATATCAATTTGACTGGACTTGTAGCATTCAAATATT
AACACAGATTTCAAATTTTAGAAAGATATTTGTACTAGAATCTTGTCAGGTAACTCTGTG
GTATTTCTATTAGTATGGAAATTGTTTATAAAGACACACTCTGAATTTTTGTGGTCAAGT
AGGGTTTGTAGAATCTTTGATAGCCCAGCATGTTAAAATGTAAATGTTCTAGAAAAATAA
TCTTTCACTTTCCCTGTGAAAAGACCCCGCAAAAAGTTTTTTGAGGGGTGTGTTAAATAT
ATAAATTTTGAAAGACGTAGACAAAATAGTTAACTATCTACTTATGATATTTAATAAGTT
TGGCCAGGCATGGCAACTCATGCCTGTTGTAATCCCAGCGTATTGGGCCGGCTGAGGTAG
GAGGGATTGTGTGAGCCCAGGCGTTTGAGACTGCAGTGAGCTATGGATCCTGCCTGGATG
ACAGGGCAAGACCCCAAGTCAAAAAAAAAAAGTAATTGTTTAATGAACATTTAAAAACCN
CATTGGTTGGAATAATGTGNGGTTAAAAAAT

Sequence 5823

TTTTTTTTTTTTTTTTTTTTTTTTNGGGGGTTTAATTNAATTTTTTTTTTTTTTTTTTT
NNNNNNNAAAAANNANGGGGGGTTTTACCANTTTTATTTTNAAACTTTNATGTTTGNTTT
TTGNCTTTTGNNGNAAAAATTCCGGTAAAATTTTGGTGCTNGAAANCCCCCCGTTCAACN
AAAAATNAAAAAACCAANCNTNCCGTTGCCAAAAACTTTAAAATTTGNNCTTNAAAANAA
AAANTTCNTTTTGCCCNGTGCANTTGCCACNAACCTTTGGCTTTTTNAAACAAAAAAAAT
TCAGNANTTNTGCCTTTGCCCCATTAAAGAAAAAANAAAGNGGTNCNTTAAAGGCCCCCG
CNTTAATTTAATTTTAAAAAATTCTTTTTTAANGGG

Sequence 5824

NGGGGGAATTATTATTTAATGGAGAAAAAAATCCACGTTGTNTACAACATTTCAAAACAG
AAAGTTAAATCATTAAATAGTACTTTTTATTTAAATGTTTATAAGGCAGATCTATGAGAA
ATGATAGAAAACCATGGGTGGGGTAATTTGGATAGCCAATATTTTTGGGAGATTACNGGA
GTTTTAGTAATTCCCAATTACCCCGTTAAAAAAGAAGATAATTTTNTTCCAAGCCCGATT
CCAAAATATCTAATGAAAGGATCAAGGCNCGGAAAATGAGTNTTACTAATTGGCCAATGG
GAAAATCAAT

Sequence 5825

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTGG
GGATGCTCAACCTATAATACCCAAAGGCTCTATTTCAGTAGAATTTATTGGTTTGCTGAT
TATAGCAGTGACATAGTTGCATTCTAGAGACCTTAGAAAATGCAGAAAATTTCAAGAAAA
ACATTTAAATTGTGCTCATAGTGAAACTGAGAGGTGACCACTCTTAATATTTTGTGGCAT
AAGCATTCCAGTCTTTTATCTTTCTCAAAGTTTCACATAAACTTTCTCAAAGGCCATTAA

Table 1

ATACTTTTCCATAGCCTGATTTTTTGTGACCACATAGTATCCTATTATATTGATAATACC
ATAATTTACCTAACCCATTTTTATATATTTGGATTTTTTCCAATTCATCATTATTATGAA
TAATGGTGTATCTCAAGTGGTTATTACTTTGCACTGCATTTCTTATGAAAGTATTGAGTA
AAAGGAAGTAAAGCCCTCTCAGAGTGTTTTGTAGGCTGTACATTTCACTCCATAATGTCC
TAGTGTTTGTTGCCACCAGTGATATATGAAGGGACCCACTGGAAATGTCACACCTTTTTG
GGTTTCCTTTTTAAAATNAAAAATTAAAAAGACT

Sequence 5826

CGCTTTTTTTTTTTTTTTTTTTTATNTNGGGGTTTTGGCGGCTGTAATGTGCAATGATGT
GTTTTATTTTCCTTGAGCTTAACATTACTAACAATTGCAAAAATAATCTGAGGAGCCTAC
TTTGCATTGTTTGAAGTTGGAGTTTTGGATACTGACATAAATCATGAATCTGGCGTATTA
ATGCTTAACTTCAGCNCCTTTGGGTGGGGGGATGGGGTATTTTTTCTCCCCCCANCCCCG
CCCTTTTTTTTT

Sequence 5827

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTNGAGGAAGGCACCTACAAAACGAAAGTGCCTAGGGCTTACAAAAGTCATATGT
AGCCTTTACAAATATTANCTCAGTCATTTTCANAAAGGTTTTTCCAATTATCATTTTAGA
GATGAGGAAACTGAAGCTCAGGGAGGCTANGGAAACTTTATCCAAAGCCTNTTAANAGGC
TNTGTTAGTCANACTGGGCTAACAGCTGTAACAACCCCAGAATTTAAATGGCTTAACNCA
TTAGGAGTTTATTTGTTATTGCCATAACAATTCAGGGTGTATGTTTGGCAGGTAGTCTAC
ACAGTGATTCAGGGACCCAGGCTCCTTCCCTNTGGNGGCTTTTTCTCCCTCTAGTGCTGG
GAGCTCTCCATGCANATGGTGGATGGAGAAAGAGAACNAAAAGGGGGGGATT

Sequence 5828

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTAACTTTTGACAGANACTA
GATCTTGCTATGTTGCTGAGGTTGCTCTTGAACTCCTGGGCTCAAAGAATCCTCTCATTT
CAGCCTCTTCAACTGCTGGTATTACAAGCATGAGCCACCATATGGGCTGGAAGCTNATTT
TTAAAAAAACTGAGACCATATANNATGACAGCACCCAGAGAAACAGAAATATTAACTGAA
GTTGTTGCTGGCANACCATTCTTTCTTTCCACCTTTCTTTNTTCCTCCCTCCCCCTCCTC
CATCTTTTTACTTTTCGTCCTCTTCCTTTCTCTTCTTTCTCTCCTTCATTATCCCTTTCA
CTGNTTCTCTTTCTCCCTTTCTTTTTTCTTTTCTTTCCCCCGCGTTAATTAATTCTAGAA
GTACTCTCGAGGGGGGGCCCGGG

Sequence 5829

TTTTTTTTTTTTTTTTTTTTTTTTTACTTGAATTGTTGTTATAGNGCTTCCGTTATTTATT
TTTATTTTTTTTATTATACTTTAAGTTTTAGGGTACATGTGCACAACGTGCAGGTTTGCT
ACATATGTATACATGTGCCATGTTGGNGTGCTGCACTCATTAACTCGTCATTTNATATTA
GGGNATNTATACCGTNGTTNATTTGTACCNTTATCGACTTTTGCAGCATGCTTATCCATC
TAACTATTTCATCTTTATTTGCCTTCCNTTTTTTTTGAGTTCCCTTATTCATCCTAAAAA
CAAAAATATAATGCCTNACTCAATAGTCANACTTNACAAGTATTTTTAAAATGAATTACC
ATTGCCATTTGGGG

Sequence 5830

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNANAGGGAAAATTT
TGCTGTTTTGCCCAAACTGGAGTGAANTGGTATNATCTTGGCTNACTGCAACCTCCGCCC
ACCCAGGTTNAAGCTATTCTCCTGCCTCAACCTTCTGAGTAAGNTGGGATTATAGGCACC
CCTGNCANANATNGCTAATTTTTGTATTNNTAGTAAAAACGGGGTTTAACCACNTTGGCC
AGNCTGGTCTCNAANTNCTGACCTNAGGNGATTCACCCGCCTNAANNAATTCTAAAAATA
CT

Sequence 5831

TTGGCANCTCCACCNGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTATTTTTTTTGGGG
CGACCTNGGTAGCANAACCCAACCTCCGAGCAGTACATGCTAAGACTTCACCANTCAAAG
CGAACTACTATACT

Sequence 5832

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTT
TTTTTTTGAAAAAGAATCACANCCAAAATAAGACATTAACTGCAAAATCCAAAATGGCTG
CGCTTACCCTATGTATAAAAATGCGTCCAGTCCGGTCGGGGCACGGCCTATGCTTTCCCG
GGGATCTTGGCCCGCTTGCGTGCAATNAGCCATCCTCCACGGCCTTCAGNTGTTTNANCA
GCTCCTCCCGCCTTAATTAATTCTAGAAGTACT

Sequence 5833

AATACGACTNCTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTT

Table 1

TTTTTTTTTTTTTTTTTNGAGGAAGGCACCTACAAAACGAAAGTGCCTAGGGCTTACAAA
AGTCATATGTAGCCTTTACAAATATTAGCTCAGTCATTTTCANAAAGGTTTTTCCAATTA
TCATTTTANAGATGAGGAAACTGAAGCTNAGGGAGGCTAAGGAAACTTATCCAAAGCCTC
TTAAGAGGCTATGTTAGTCANACTGGGCTAACAGCTGTAACAACCCCANAATTTAAATGG
CTTAACACATTAGGAGTTTATTTGTTATTGCCATAACAATTCAGGGTGTATGTTTGGCAG
GTAGTCTACNCAGTGATTCAGGGACCCAGGCTCCTTCCCTNTGGNGGCTTTTTCTCCCTC
TAGTTGCTGGGAGCTCTCCATGCANATGGGGGATGGAGAAAGAGAACNAAAAGTGGGGGA
TT

Sequence 5834

CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAAAGCAAAACTCCC
GACAGCCGAGCCCCGTTCGGGGCCTTTTCTTTTTTTTTTCTTTAATGGAGTGAAATCTAC
TTTGCTCAGGAAGCCTGCAAATCACATTTTCAGGCCAAACGAGGCANTNTTTTANAAGGG
GTCGCTGAGGCAGGAGTAGGAAGGCTTTTCCACTCCACTCACNCATTTTCAGTGTAGGCG
AATCGTAAAACGGAGGGCAGAACGAAAATGAGCGGATCTGGGAGTGCAGGCTGCGCTTCG
TCCCCCCGNGTTAATTAATTCTAGAAGTACT

Sequence 5835

AACACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTT
TTTTTTTTTTTTNGANACANAGTTTTGCTNTTGTCACCCAGGCTGGAGTACAATGGCACA
ATCGCGGNTCACTGCAACCTCCACCTCCCGGGTTNAAGNGATTNTCCTGCCTCGGCCTCC
TGAGTAGCTGGGATTACAGGCACCTGCCACCATGCCTGGCTGTTTTTCANATTTTTAGTA
AAAACGGGGTTTCACCATNTTGGCCAGGCTGGTNTTGAGCTNGCGACCTNANGNGATTCG
CCCACCTT:NNCCTNCCAAAGTATTGGGATTACAAATGTGAGCCACTGTGCCCGGCACTT
TTNTGCTTTTAAATACAATGATTTTAAAAAGTNTTGTATATNAAACTTTGGGCTTGGGNC
CTAAATATCCCANTGGTGTGTAGGGAGCCCCTNTTNTTATTTTGCNAGGGGGATCCCATT
TANNACCCAAGGGANANTTAANAATCCAGCNCCTTTNTCCC

Sequence 5836

ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTGGAGACAGGGTTTTGACATGTTGGTCAGGCTGGTCATGAACTCCTGGCCTC
AAGNGATCCACCTACCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGCGC
CCAACCCTGTGTTTATTCTTAGGTCTGTACTACGCTTTATGCCTCAAGTTTCCACAGGTA
AAACACGTTATTTTATTCCTCACGTTATAGGAGCAATTTGTATTCATAAAC

Sequence 5837

CTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTNT
TTTTTTTTTTTTNGGATTCATANAAAGACTTTTATCTATTGNGCAAAGAGAGGGNCANCT
GGCTCCCCANAAGGNTCTCAACCCCATCAAGACTGTCCATT

Sequence 5838

CTATAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTT
ATTNAAGGNAGTGGGTGTTGAGCTTGAACGCTTTCTTAATTGGTGGCTGCTTTTAGGCCN
ACTATGGGTGTTAAAATTTT

Sequence 5839

GGNGGAAGGCNCCTACAAAACGAAAGTGCCTAGGGCTTACAAAAGNCATATGTAGCCTTT
ACAAATATTAGCTCAGTCATTTTCANAAAGGTTTTTCCAATTATCATTTTAGAGA

Sequence 5840

ACACTACTTAGGGCAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTT
TTTTTTTTTTGGANACAGGGTCTCACTNTGTCACCCAGGCTGGAGTGCAGNGGCGCAATC
TCAGCTCACTGCAGCCTNTGCCTCCCAGGTTCAAGCGGTTCTCCTGCCTNAGTCTCCCGA
GTAGCTGGGATTACACCACCACACCTGGCTAATTTTTTGTATTTTTGGGTATAGACGGGT
TTTCGCCATGTTGGCCAGGCTGGTGTCAACTCCTGATCTCAAGTGATCTGCCAGCCTNGG
CCTCCCAAAGNGCTANTACAGGCGTGAGCCACCACGCCTGGCTTAGGCTGCTTAAAAANT
CTTTCTTAGGTATCCTTGGTTTTGGAAAAAAAAAGAATAACAGAAAACTAAAAATTCCCA
GTGGCAGTCTNTGTATCACTGGAATTTAA

Sequence 5841

TAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTNG
AGGNGAATGAATTTAATATAATCTCTATAAAAACCCTAATCACACAGTTTTTTACAGAAA
TATAGTTTATTTTTTTTTTTTATTTTTTTTANATGGAGTCTCACTCTATTGCCAGGCTGG
AGTGCAGTGGCTGTAGTGGCCTGATCTCGGCTCACTGCAACCTCTGCCTNCCGGATTCAA
AGTGATTCTCCTGCCTCANCCTNCCGAGCAGCTGGGAATACAGGCACCCGCCTTAATTAA

Table 1

863/863

TTNTAGAAGTACT
Sequence 5842
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTT
TTTTTTAAGACGGAGTCTTGCACTGTCGCCTAGGCTGGAGTGCAATAGTGCGATCTTGGC
TCACTGTAAGCTCCACCTCCGGCGTTCACGCCATTCTCCTGTCTCAGCCTCCCGAGTAGC
TGGAATTACAGGCTCCCGCCACCACGCCCGGCCTTTTTTTTGTATTTTTTTAGTANAGACA
GGGTTTTACTNTGTTGGCCAGACTGGNCTTNAACNTCTGACCTCGTGATCCNNCTGCTTC
GGCCTCCCAAAAGTGCNTGGGATTACAGGTGTAAGCCCACACGTGCCCCGCCTNAAATTA
AATTCTNGAAAGTACTCTCCAGGGGGGGCCCGGGNCCCAGNCTTTTGTTCCCTT
Sequence 5843
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAGNACAAATGCTTTT
ATATTCAGCCCCTGTAAAGCCATCANATGTTTGAAAGTTGTTAAACACCAACCAAAGGGT
TTAATTTTAANAACTTAGCTAGGAATGGGTGAAATCCTACCCAATTAANAGGAGTTCTGC
AAATTATTAACAAAGTGTAAAATGAA
Sequence 5844
ATCGACTACTATAGGGCGAATTGGAGCTCNCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTGNAAGNANATTGTTTNTGNTAGGCAATATAATCNGCTAATGGGACA
GTTTCCCTGTAACAATGTGTANCAAAACTCTGCANGATTAATGANAAGAATGTATTGCCT
TTGAAGCANCACCACTTGAGTAAAAANNCCNNAAATGGGCTNTATGTTATGCTAGTGGAA
GAANAGCACCGGANGATATTTNTTGG
Sequence 5845
CCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGAAGGCACCTA
CAAAACGAAAGTGCCTAGGGCTTACAAAAGTCATATGTAGCCTTTACAAATATTAGCTCA
GTCATTTTCANAAAGGTTTTTCCAATTATCATTTTANAGATGAGGAAACTGAAGCTCAGG
GAGGCTAGGAAACTTATCCAAAGCCTNTTAANAGGCTATGTTAGTCANACTGGGCTAACA
GCTGTAACAACCCCANAATTTAAATGGCTTAACACATTAGGAGTTTATTTGTTATTGCCA
TAACAATTCAGGGTGTATGTTTGGCAGGTAGTCTACACAGNNGATTCAGGGACCCAGGCT
CCTTCCCTTTGGNGGCTTTTTCTCCCTNTAGNGCTGGGAGCTNTCCATGCAAATGGTGGA
TGGAGAAAGANAACAAAAAGNGGGGGATTTTTATAGGCCAGGCCTGGAATTGGC
Sequence 5846
ACTACTTAGGGCGAATTGGAGCTCCCCGCGGTGGCGGCCGCTTTTTTTTTTTTTTTTTTT
TTTTTTTTCTCTCTTTAGACAGAGTCTTACTCTGTCACCCAGGCTGGAGTGCAGTAGTGC
AATNTTGGCTCACTGCAACCTCCACGTNTCATGTTCAAGNGATTCTGCTGCCTCAGCCTC
CTGAGTATCTGGGATTATAGGCACACACCACCATGCCCGGCTAATTTTTGTATTTTNAGT
ANAGACTGGGTTTCACCATGTTGGCCAGGCTGGTCTGGAACTCCTGACCTCATGATCTGC
CCGCCTTAATTAATTCTAGAAGTACT